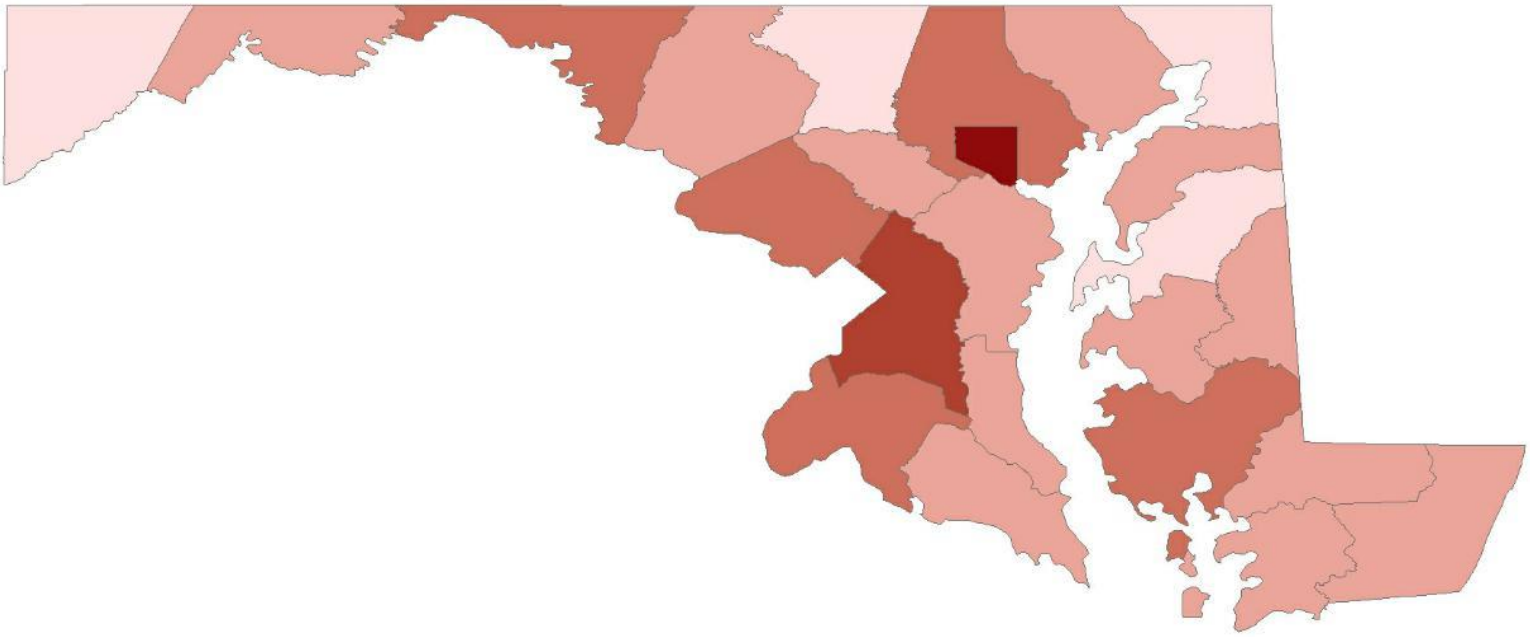
2014



Maryland HIV Annual Epidemiological Profile

Data reported through December 31, 2015

Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Epidemiology and Outbreak Response Bureau
Prevention and Health Promotion Administration
Maryland Department of Health and Mental Hygiene
http://phpa.dhmh.maryland.gov/OIDEOR/CHSE
1-800-358-9001

Acknowledgements

This report is published by The Center for HIV Surveillance, Epidemiology and Evaluation annually with valuable contribution from the following people listed. In addition, this report would not have been possible without the cooperation, dedication and hard work of HIV health care providers, community groups, researchers and members of the community and contribution from people with HIV.

Center for HIV Surveillance, Epidemiology and Evaluation

Colin Flynn, Chief
Jami Stockdale, Deputy Chief, Epidemiology and Evaluation
Reshma Bhattacharjee, Deputy Chief, HIV Case Surveillance

Alyssa Arey, Epidemiologist
Morgan Boyer, Epidemiologist
Harold Boykin, Epidemiologist
Molly Gribbin, Epidemiologist
Jennifer Lawall, Epidemiologist

Leigh Carels, Surveillance Investigator
Phyllis Finch, Surveillance Investigator
Delwar Hossain, Surveillance Investigator
Bekele Mamo, Surveillance Investigator
Winona Matthews, Surveillance Investigator
Carly Stokum, Surveillance Investigator
Assefa Tigeneh, Surveillance Investigator
Denise Bannerman-Wood, Data Quality Specialist/NIR Coordinator

Yvonne Childress, Data Specialist
Kathy Colburn, Data Specialist
Lillian Keene, Data Specialist
Rhonda Rowlette, Data Specialist, Health Record Reviewer

Mohammed Haque, Health Record Reviewer
Nancy McCaslin, Health Record Reviewer
Marilyn Walkins, Health Record Reviewer

Linda Knapp, Evaluator
Sara Daneshpour, Research Assistant
Claire Kihn, Research Assistant

Suggested Citation: Maryland Annual HIV Epidemiological Profile 2014. Center for HIV Surveillance, Epidemiology and Evaluation, Department of Health and Mental Hygiene, Baltimore, MD. 2016.

Table of Contents

Acknowledgements **1**

Table of Contents **2**

Section I – Background Information **4**
HIV/AIDS Reporting Requirements 4
For Assistance with HIV/AIDS Reporting 4
Limitations in the HIV/AIDS Data 4
Stages of a Case of HIV/AIDS 5
Changes in Case Terminology 5
Laboratory Data 6
Sources of Data 6
Tabulation of Column Totals 6
Data Suppression 6
HIV Exposure Categories 6

Section II – Trends 1985-2014 ..... **7**
Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2014, Reported through 12/31/2015 7
Figure 2 – Trends in Living HIV Cases, 1985-2014, Reported through 12/31/2015 8
Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2014, Reported through 12/31/2015 9
Figure 3A – Trends in Rates of Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 2005-2014, Reported through 12/31/2015 10
Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2014, Reported through 12/31/2015 11
Figure 4A – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 2005-2014, Reported through 12/31/2015 12
Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2014, Reported through 12/31/2015 13
Figure 5A – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 2005-2014, Reported through 12/31/2015 14
Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Exposure Category, 1985-2014, Reported through 12/31/2015 15

Section III – Adult/Adolescent Cases by Jurisdiction **16**
Table 1 – Adult/Adolescent HIV Diagnoses during 2014, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Jurisdiction, Reported through 12/31/2015 17
Table 2 – Adult/Adolescent AIDS Diagnoses during 2014, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction, Reported through 12/31/2015 18
Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2014, by Jurisdiction, Reported through 12/31/2015 19
Table 3A – Adult/Adolescent HIV Cases Alive on 12/31/2014, by Jurisdiction and Current Residence, Reported through 12/31/2015 20
Table 4 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2014, Reported through 12/31/2015 21
Table 5 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2014, by Jurisdiction, Reported through 12/31/2015 22
Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, Reported through 12/31/2015 23
Figure 7A – Prevalence-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, by Current Residence, Reported through 12/31/2015 24
Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, Reported through 12/31/2015 25
Figure 8A – Diagnosis-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, by Current Residence, Reported through 12/31/2015 26

Section IV – Cases by Age **27**
Table 6 – HIV Diagnoses during 2014, First CD4 Test Result, Percent Linked to Care, Percent Late Diagnosis, by Age at HIV Diagnosis, Reported through 12/31/2015 27
Table 7 – AIDS Diagnoses during 2014, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Age at AIDS Diagnosis, Reported through 12/31/2015 27

Table 8 – HIV Cases Alive on 12/31/2014, by Age on 12/31/2014, Reported through 12/31/2015 29
Table 9 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2014, by Age on 12/31/2014, Reported through 12/31/2015 30
Table 10 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2014, by Age on 12/31/2014, Reported through 12/31/2015 30

Section V – Adult/Adolescent Cases by Demographics 31
Table 11 – Adult/Adolescent HIV Diagnoses during 2014, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 12/31/2015 31
Table 12 – Adult/Adolescent AIDS Diagnoses during 2014, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 12/31/2015 33
Table 13 – Adult/Adolescent Living HIV Cases with and without AIDS by Sex at Birth, Race/Ethnicity, and Country of Birth, Alive on 12/31/2014 and Reported through 12/31/2015 34
Table 14 –Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2014 and Reported through 12/31/2015 35
Table 15 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2014 and Reported through 12/31/2015 36

Section VI – HIV Cases by Expanded Demographics 37
Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2014 and Reported through 12/31/2015 37
Table 16 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2014 and Reported through 12/31/2015 38
Table 17 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2014 and Reported through 12/31/2015 39

Section VII – HIV Exposure Category 40
Table 18 – Adult/Adolescent HIV Diagnoses during 2014, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Exposure Category and Sex at Birth, Reported through 12/31/2015 40
Table 19 – Adult/Adolescent AIDS Diagnoses during 2014, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Exposure Category and Sex at Birth, Reported through 12/31/2015 42
Table 20 – Adult/Adolescent Living HIV Cases with and without AIDS by Exposure Category and Sex at Birth, Alive on 12/31/2014 and Reported through 12/31/2015 43
Table 21 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2014 and Reported through 12/31/2015 44
Table 22 – Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results by Exposure Category, Alive on 12/31/2014 and Reported through 12/31/2015 45
Table 23 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results by Exposure Category, Alive on 12/31/2014 and Reported through 12/31/2015 45

Section VIII – Disease Progression and Mortality 46
Figure 10 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2013, Reported through 12/31/2015 46
Figure 11 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2013, Reported through 12/31/2015 47

Section IX – Pediatric Cases 48
Figure 12 – Trends in Pediatric HIV Cases, 1985-2014, Reported through 12/31/2015 48
Table 24 – Pediatric HIV Total Living HIV Cases, Alive on 12/31/2014, by Jurisdiction, Reported through 12/31/2015 49
Table 25 – Pediatric HIV Diagnosis during 2014 and Pediatric Total Living HIV Cases by Sex at Birth and Race/Ethnicity, Alive on 12/31/2014 and Reported through 12/31/2015 50
Table 26 – Perinatal HIV Transmissions by Year of Birth, 2005-2014 51

Glossary of Terms 52

Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in COMAR 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing DHMH Form 1140. Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the State Health Department by mailing DHMH Form 1140. Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing DHMH Form 1140. Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the State Health Department to establish electronic reporting.
- Laboratory Chiefs are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland State Health Department, by mailing DHMH Form 4492. Laboratories are encouraged to contact the State Health Department to establish electronic reporting.

Reporting forms and instructions are available on our website:
http://phpa.dhmh.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Health Department, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health and Mental Hygiene at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis. Nationally, it has been estimated that 12.8% of people living with HIV infection are undiagnosed. In Maryland, it has been estimated that 18.7% of people living with HIV infection are undiagnosed. In addition, despite a massive effort during which over 17,000 HIV cases were reported after the Maryland HIV reporting law changed on April 24, 2007, not all diagnosed HIV cases previously reported by Maryland's code-based identifier were located and re-reported by name. In addition, many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an under-reporting of HIV diagnoses before 2001 and an over-reporting of HIV diagnoses from 2001 to 2008. It is important to note that surveillance is an ongoing systematic collection, analysis, interpretation, and dissemination of laboratory data. Furthermore, laboratory data are only available for cases receiving medical care, usually only at facilities in Maryland, and only includes test results that have been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department. Caution should be exercised in using the number of living HIV cases without AIDS and in interpreting trends in the number of reported HIV diagnoses.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both new and old diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, the reports received through a certain time (the end of the year) are used to generate the number of diagnoses during the prior years. This one-year lag allows for delays in reporting and time to complete investigations. For example, the Reported HIV Diagnoses for 2014 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 01/01/2014-12/31/2014, as reported by name through 12/31/2015.

To calculate the number of Living Cases we count up all of the Reported Diagnoses from the beginning of the epidemic (all the new cases each year) and subtract all of the Reported Deaths. For example, the Total Living HIV Cases on 12/31/2015 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/2015 as reported by name through 12/31/2015.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4 cells per microliter of blood. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health and Mental Hygiene's Enhanced HIV/AIDS Reporting System (eHARS), December 31, 2015.

Population data by sex, age, and race/ethnicity are from the July 1, 2014 U.S. Census Estimates and by country-of-birth from the 2013 American Community Survey (note the difference in total population due to different source). Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Tabulation of Column Totals

Figures in tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who have sex with men and report injection drug use constitutes a separate transmission category.

MSM (Men who have Sex with Men): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

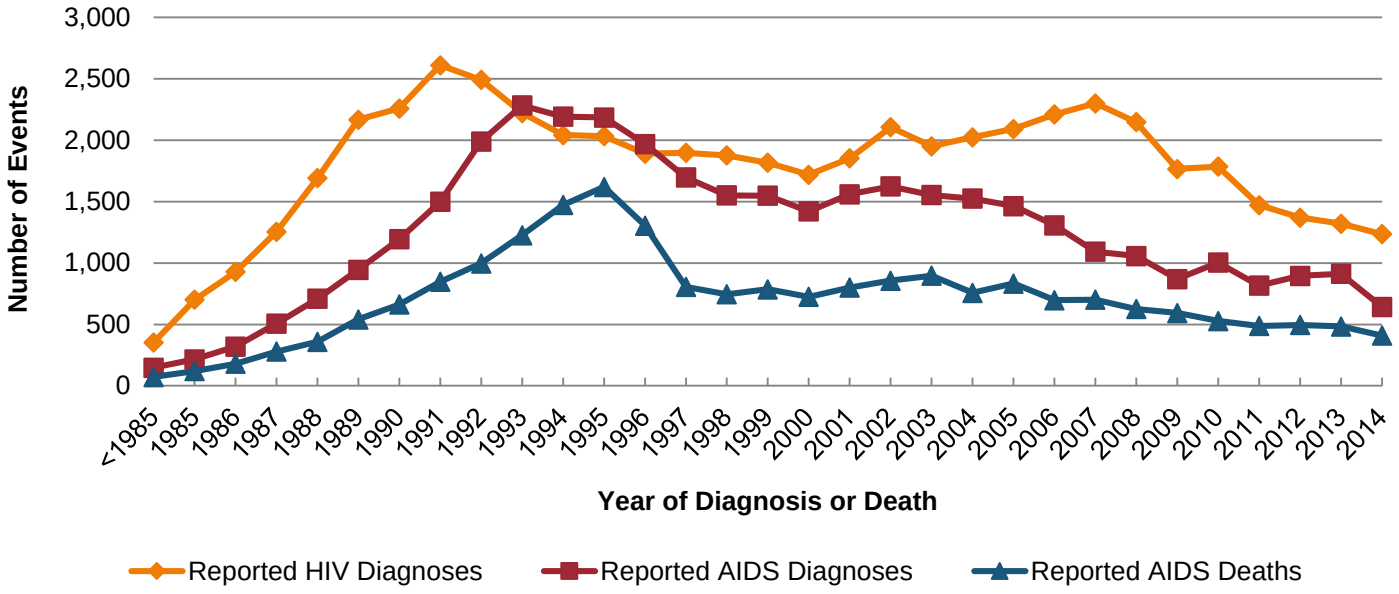
Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Perinatal Exposure: Any baby born to an HIV positive mother.

Section II – Trends 1985-2014

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2014, Reported through 12/31/2015

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2014 as Reported through 12/31/2015

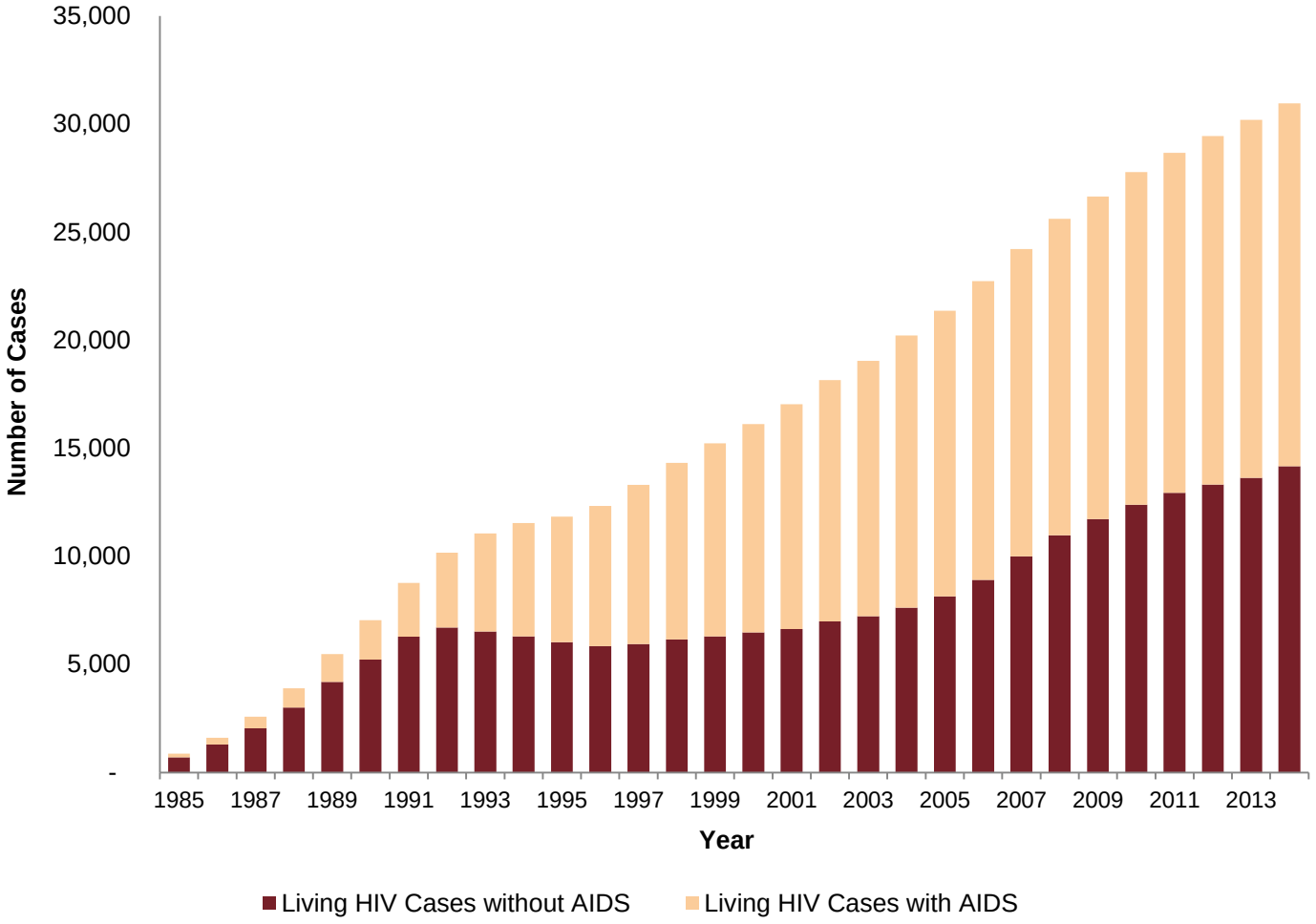


During the 2007-2008 transition to name-based reporting, many HIV cases were reported by a recent HIV diagnosis and not by their earliest HIV diagnosis, resulting in an artificial upward trend in HIV diagnoses during the period 2001-2008

Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	354	148	72	**2000**	1,719	1,420	725
1985	702	216	120	**2001**	1,853	1,560	801
1986	928	320	180	**2002**	2,106	1,623	857
1987	1,255	507	279	**2003**	1,951	1,553	897
1988	1,691	709	359	**2004**	2,024	1,525	758
1989	2,167	945	541	**2005**	2,091	1,464	833
1990	2,258	1,194	662	**2006**	2,210	1,307	698
1991	2,610	1,499	847	**2007**	2,300	1,092	702
1992	2,491	1,989	997	**2008**	2,147	1,057	626
1993	2,221	2,283	1,226	**2009**	1,766	870	593
1994	2,042	2,191	1,472	**2010**	1,785	1,003	528
1995	2,032	2,185	1,620	**2011**	1,471	816	488
1996	1,890	1,969	1,304	**2012**	1,370	895	495
1997	1,897	1,697	806	**2013**	1,320	912	484
1998	1,876	1,551	746	**2014**	1,235	643	409
1999	1,817	1,548	786	**Total**	55,579	38,691	21,911

Figure 2 – Trends in Living HIV Cases, 1985-2014, Reported through 12/31/2015

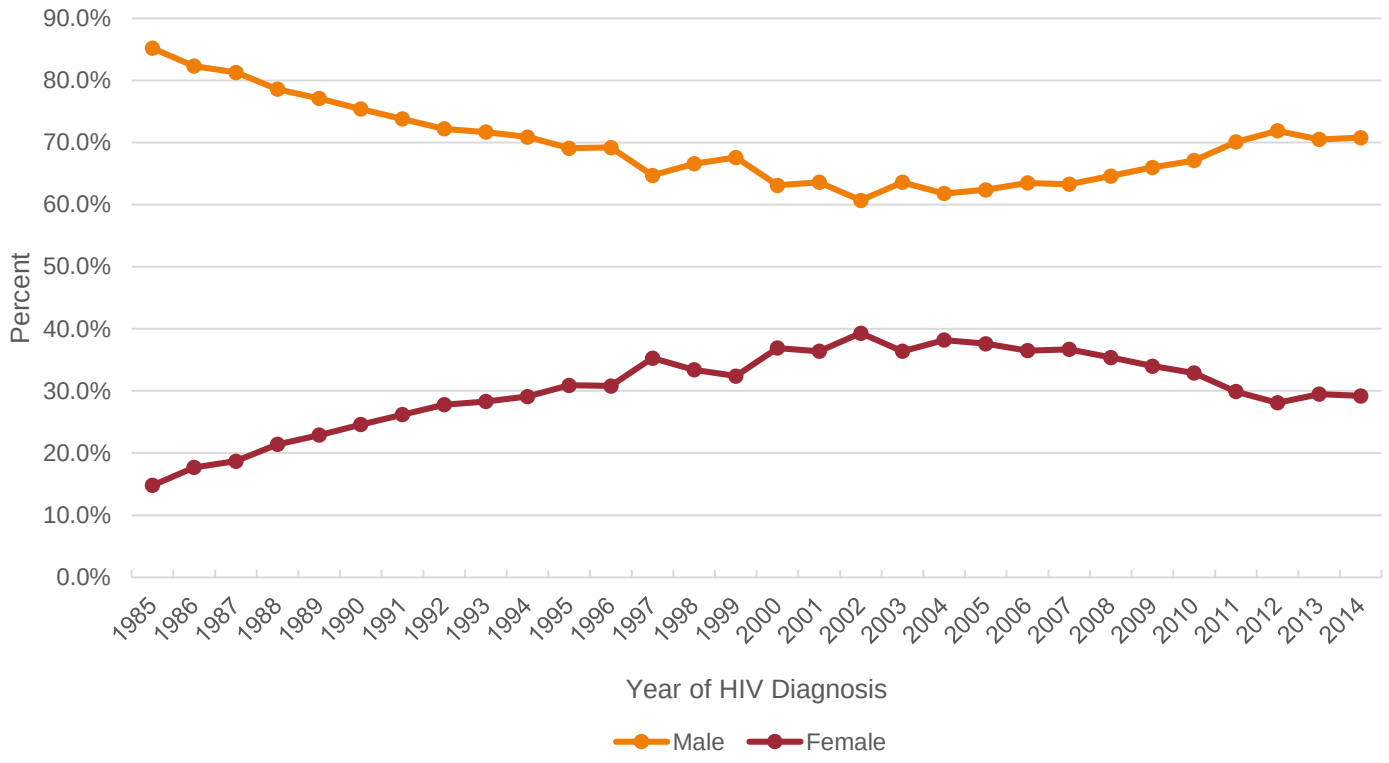
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2014, as Reported through 12/31/2015



Year	Living HIV Cases without AIDS	Living HIV Cases with AIDS	Total Living HIV Cases	Year	Living HIV Cases without AIDS	Living HIV Cases with AIDS	Total Living HIV Cases
1985	697	171	868	**2000**	6,481	9,635	16,116
1986	1,299	311	1,610	**2001**	6,640	10,396	17,036
1987	2,039	540	2,579	**2002**	6,996	11,162	18,158
1988	3,004	890	3,894	**2003**	7,234	11,818	19,052
1989	4,186	1,294	5,480	**2004**	7,628	12,585	20,213
1990	5,221	1,826	7,047	**2005**	8,143	13,216	21,359
1991	6,287	2,478	8,765	**2006**	8,912	13,826	22,738
1992	6,704	3,470	10,174	**2007**	10,007	14,216	24,223
1993	6,528	4,527	11,055	**2008**	10,971	14,648	25,619
1994	6,292	5,248	11,540	**2009**	11,721	14,925	26,646
1995	6,028	5,815	11,843	**2010**	12,387	15,400	27,787
1996	5,844	6,482	12,326	**2011**	12,946	15,728	28,674
1997	5,938	7,373	13,311	**2012**	13,322	16,128	29,450
1998	6,149	8,178	14,327	**2013**	13,638	16,556	30,194
1999	6,291	8,940	15,231	**2014**	14,168	16,790	30,958

Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2014, Reported through 12/31/2015

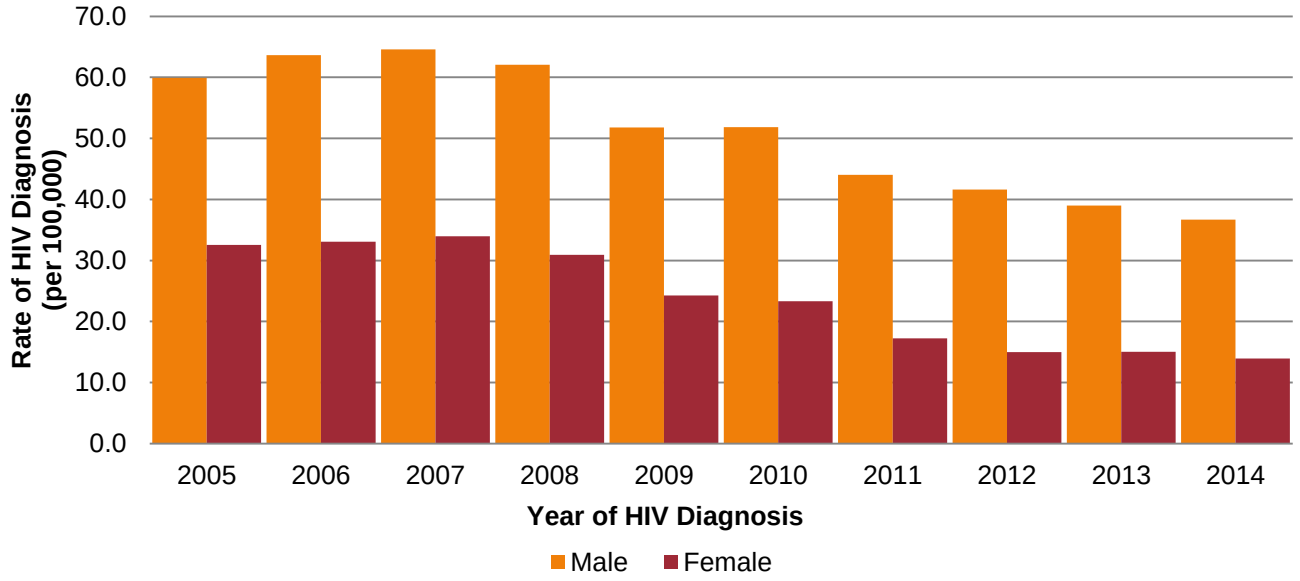
Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2014, as Reported through 12/31/2015



Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses			Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses		
	No.	% Male	% Female		No.	% Male	% Female
<1985	350	88.0%	12.0%	**2000**	1,706	63.1%	36.9%
1985	689	85.2%	14.8%	**2001**	1,839	63.6%	36.4%
1986	914	82.3%	17.7%	**2002**	2,086	60.7%	39.3%
1987	1,234	81.3%	18.7%	**2003**	1,946	63.6%	36.4%
1988	1,662	78.6%	21.4%	**2004**	2,014	61.8%	38.2%
1989	2,133	77.1%	22.9%	**2005**	2,082	62.4%	37.6%
1990	2,206	75.4%	24.6%	**2006**	2,194	63.5%	36.5%
1991	2,556	73.8%	26.2%	**2007**	2,249	63.3%	36.7%
1992	2,429	72.2%	27.8%	**2008**	2,133	64.6%	35.4%
1993	2,164	71.7%	28.3%	**2009**	1,757	66.0%	34.0%
1994	2,001	70.9%	29.1%	**2010**	1,780	67.1%	32.9%
1995	2,003	69.1%	30.9%	**2011**	1,464	70.1%	29.9%
1996	1,855	69.2%	30.8%	**2012**	1,367	71.9%	28.1%
1997	1,881	64.7%	35.3%	**2013**	1,318	70.5%	29.5%
1998	1,857	66.6%	33.4%	**2014**	1,230	70.8%	29.2%
1999	1,788	67.6%	32.4%	**Total**	54,887	69.0%	31.0%

Figure 3A – Trends in Rates of Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 2005-2014, Reported through 12/31/2015

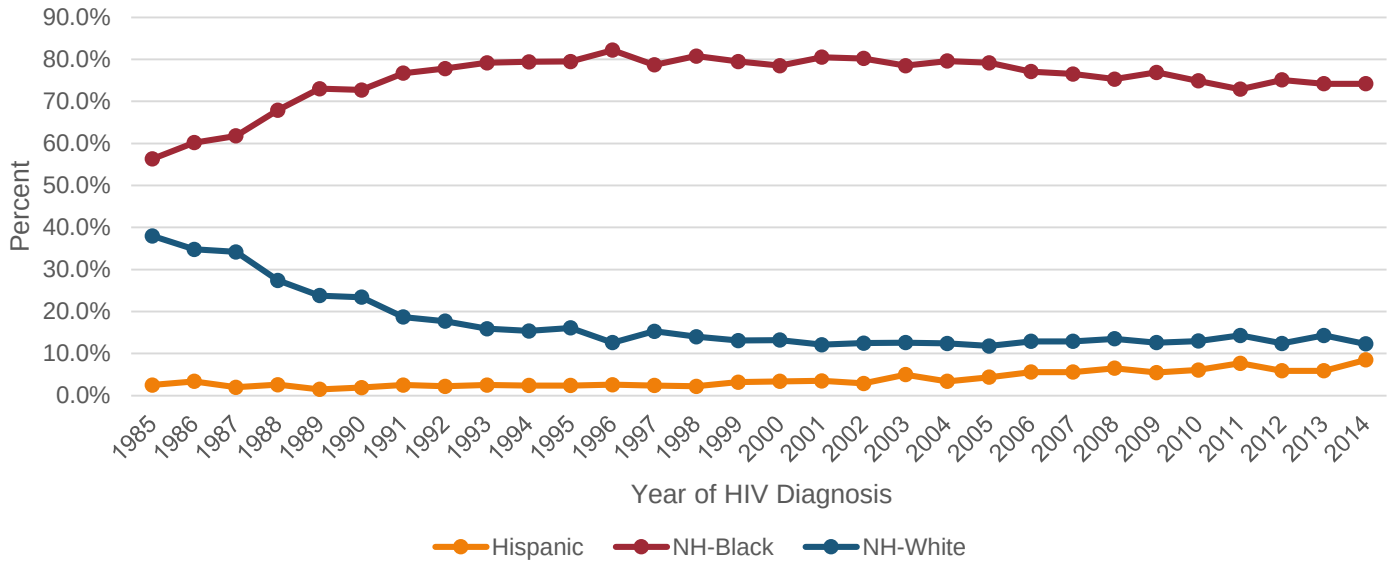
Rate by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2005 through 2014, as Reported through 12/31/2015.



Year of HIV Diagnosis	Total No. of HIV Diagnoses		Sex at Birth	
			MALE	FEMALE
2005	2,082	Population	2,167,912	2,404,174
		Cases	1,299	783
		Rate	59.9	32.6
2006	2,194	Population	2,188,433	2,419,890
		Cases	1,393	801
		Rate	63.7	33.1
2007	2,249	Population	2,204,771	2,430,739
		Cases	1,424	825
		Rate	64.6	34.0
2008	2,133	Population	2,219,919	2,442,191
		Cases	1,378	755
		Rate	62.1	30.9
2009	1,757	Population	2,238,829	2,460,976
		Cases	1,160	597
		Rate	51.8	24.3
2010	1,780	Population	2,303,746	2,512,469
		Cases	1,194	586
		Rate	51.8	23.3
2011	1,464	Population	2,331,513	2,537,457
		Cases	1,026	438
		Rate	44.0	17.3
2012	1,367	Population	2,360,279	2,563,656
		Cases	983	384
		Rate	41.6	15.0
2013	1,318	Population	2,382,313	2,581,274
		Cases	929	389
		Rate	39.0	15.1
2014	1,230	Population	2,401,118	2,604,485
		Cases	871	359
		Rate	36.3	13.8

Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2014, Reported through 12/31/2015

Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2014, as Reported through 12/31/2015

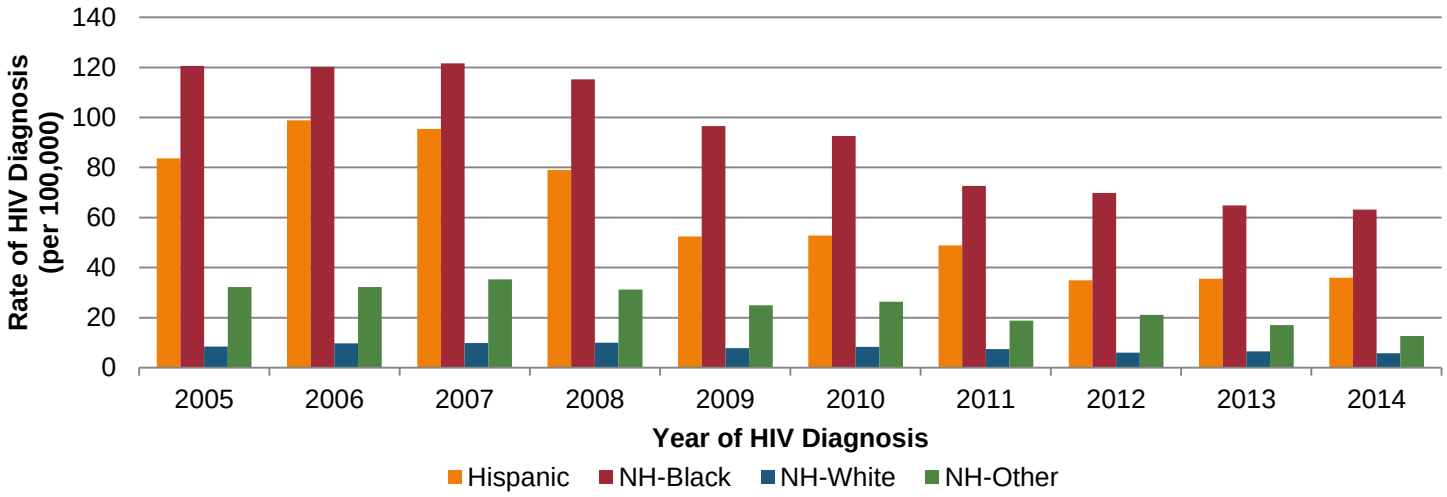


Non-Hispanic Other race not shown

Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses				
	No.	% Hispanic	% Non-Hispanic Black, only	% Non-Hispanic White, only	% Non-Hispanic Other Race
<1985	350	2.3%	56.6%	39.4%	1.7%
1985	689	2.5%	56.3%	38.0%	3.2%
1986	914	3.4%	60.2%	34.8%	1.6%
1987	1,234	2.0%	61.8%	34.2%	2.0%
1988	1,662	2.6%	67.9%	27.4%	2.1%
1989	2,133	1.5%	73.0%	23.8%	1.7%
1990	2,206	1.9%	72.7%	23.4%	2.0%
1991	2,556	2.5%	76.7%	18.7%	2.0%
1992	2,429	2.2%	77.8%	17.7%	2.3%
1993	2,164	2.5%	79.2%	15.9%	2.3%
1994	2,001	2.4%	79.4%	15.4%	2.7%
1995	2,003	2.4%	79.5%	16.1%	2.0%
1996	1,855	2.6%	82.2%	12.6%	2.6%
1997	1,881	2.4%	78.7%	15.3%	3.6%
1998	1,857	2.2%	80.8%	14.0%	3.0%
1999	1,788	3.2%	79.5%	13.1%	4.2%
2000	1,706	3.4%	78.5%	13.2%	4.8%
2001	1,839	3.5%	80.5%	12.1%	3.9%
2002	2,086	2.9%	80.2%	12.5%	4.5%
2003	1,946	5.0%	78.5%	12.6%	3.9%
2004	2,014	3.4%	79.6%	12.4%	4.6%
2005	2,082	4.4%	79.2%	11.8%	4.6%
2006	2,194	5.6%	77.1%	12.9%	4.4%
2007	2,249	5.6%	76.5%	12.9%	5.0%
2008	2,133	6.5%	75.3%	13.5%	4.7%
2009	1,757	5.5%	76.9%	12.6%	5.0%
2010	1,780	6.1%	74.9%	13.0%	6.0%
2011	1,464	7.7%	72.9%	14.3%	5.1%
2012	1,367	5.9%	75.1%	12.4%	6.6%
2013	1,318	5.9%	74.2%	14.3%	5.5%
2014	1,230	8.5%	74.2%	12.3%	5.0%
Total	54,887	3.8%	76.2%	16.4%	3.6%

Figure 4A – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 2005-2014, Reported through 12/31/2015

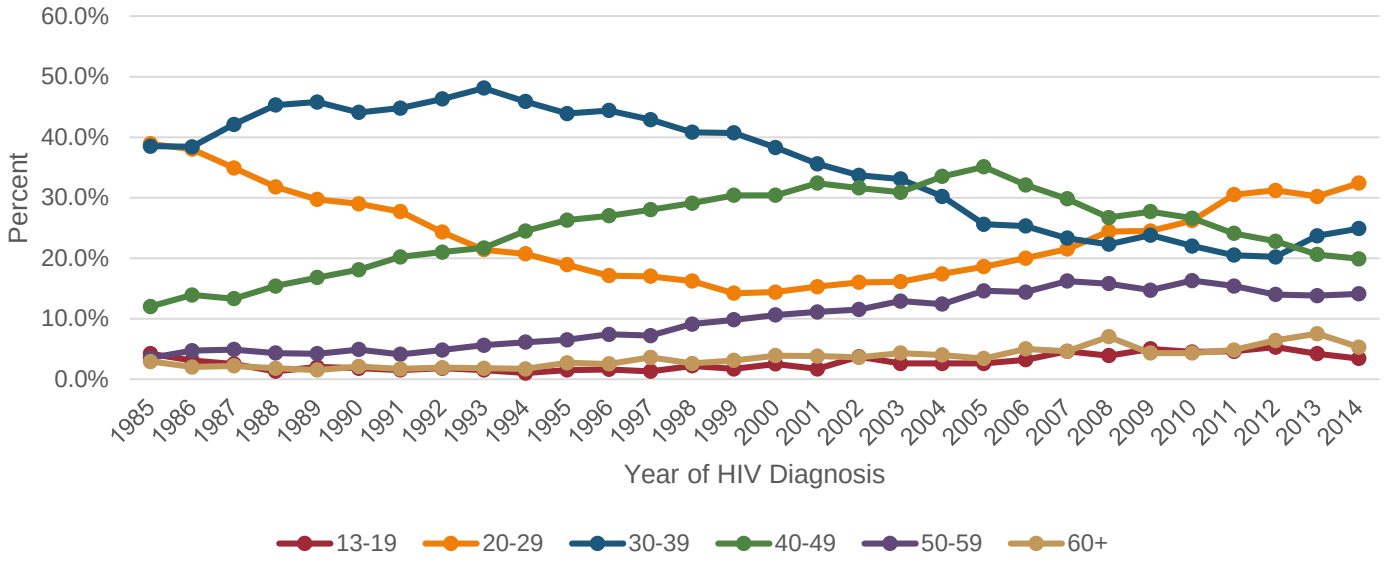
Rate of Adult/Adolescent Reported HIV Cases by Race/Ethnicity, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2005 through 2014, as Reported through 12/31/2015.



Year of HIV Diagnosis	Total No. of HIV Diagnoses		Race/Ethnicity			
			Hispanic	Non-Hispanic Black	Non-Hispanic White	Non-Hispanic Other Race
2005	2,082	Population	243,965	1,288,345	2,794,617	277,726
		Cases	92	1,649	246	96
		Rate	37.5	128.0	8.8	34.5
2006	2,194	Population	259,717	1,309,033	2,785,642	285,733
		Cases	123	1,692	283	97
		Rate	47.3	129.2	10.2	33.8
2007	2,249	Population	273,408	1,323,746	2,775,780	293,495
		Cases	126	1,720	290	112
		Rate	48.5	130.0	10.5	38.3
2008	2,133	Population	285,931	1,336,116	2,769,180	301,040
		Cases	139	1,606	288	100
		Rate	48.5	120.2	10.4	33.3
2009	1,757	Population	298,277	1,353,474	2,767,918	309,931
		Cases	97	1,351	221	88
		Rate	32.4	99.8	8.0	28.3
2010	1,780	Population	357,468	1,371,064	2,723,736	363,947
		Cases	109	1,333	231	107
		Rate	30.4	97.2	8.5	29.3
2011	1,464	Population	371,383	1,393,686	2,737,345	366,556
		Cases	113	1,067	209	75
		Rate	30.4	76.6	7.6	20.4
2012	1,367	Population	387,644	1,410,623	2,743,271	382,397
		Cases	81	1,027	170	90
		Rate	20.8	72.8	6.2	23.6
2013	1,318	Population	400,635	1,429,549	2,738,027	395,374
		Cases	78	978	188	72
		Rate	19.4	68.4	6.9	18.3
2014	1,230	Population	417,605	1,448,739	2,727,042	412,218
		Cases	105	913	151	62
		Rate	25.0	63.0	5.5	14.9

Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2014, Reported through 12/31/2015

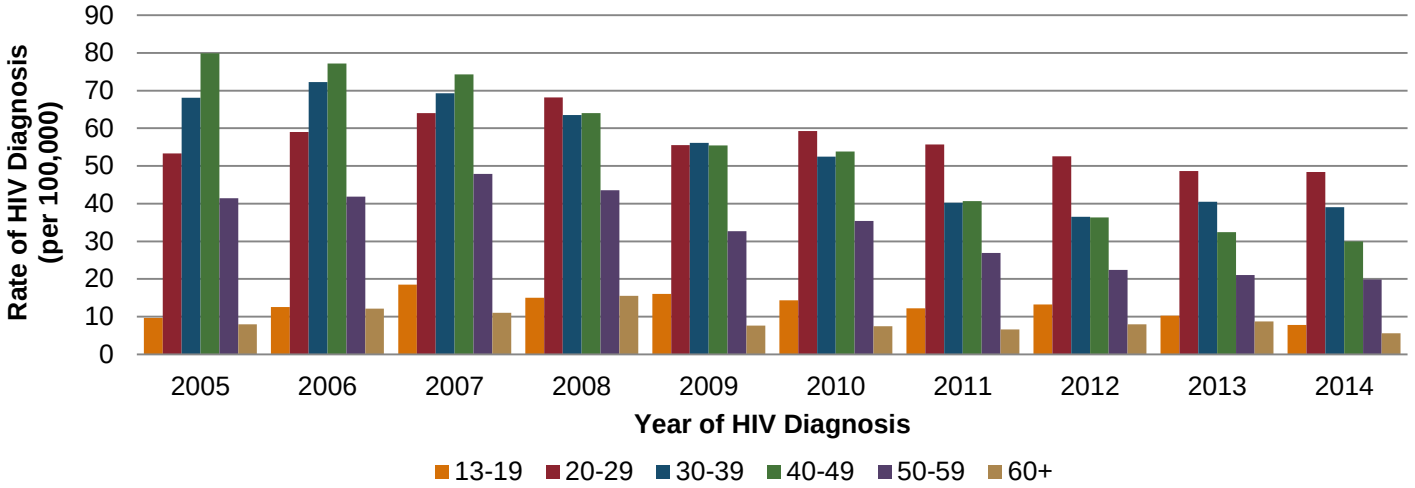
Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2014, as Reported through 12/31/2015



Year of HIV Diagnosis	Reported Adult/Adolescent HIV Diagnoses						
	No.	% Age 13-19	% Age 20-29	% Age 30-39	% Age 40-49	% Age 50-59	% Age 60+
<1985	350	6.9%	40.9%	30.9%	15.1%	5.1%	1.1%
1985	689	4.2%	38.9%	38.5%	12.0%	3.5%	2.9%
1986	914	3.1%	38.0%	38.4%	13.9%	4.7%	2.0%
1987	1,234	2.5%	34.9%	42.1%	13.3%	4.9%	2.2%
1988	1,662	1.3%	31.8%	45.3%	15.4%	4.3%	1.8%
1989	2,133	2.0%	29.7%	45.8%	16.8%	4.2%	1.5%
1990	2,206	1.8%	29.0%	44.1%	18.1%	4.9%	2.1%
1991	2,556	1.5%	27.7%	44.8%	20.2%	4.1%	1.7%
1992	2,429	1.8%	24.3%	46.3%	21.0%	4.8%	1.9%
1993	2,164	1.5%	21.4%	48.1%	21.7%	5.6%	1.8%
1994	2,001	1.0%	20.7%	45.9%	24.5%	6.1%	1.7%
1995	2,003	1.5%	18.9%	43.9%	26.3%	6.5%	2.7%
1996	1,855	1.6%	17.1%	44.4%	27.0%	7.4%	2.5%
1997	1,881	1.3%	17.0%	42.9%	28.0%	7.2%	3.6%
1998	1,857	2.2%	16.2%	40.8%	29.1%	9.1%	2.6%
1999	1,788	1.7%	14.2%	40.7%	30.4%	9.8%	3.1%
2000	1,706	2.5%	14.4%	38.3%	30.4%	10.6%	3.9%
2001	1,839	1.7%	15.3%	35.6%	32.4%	11.1%	3.8%
2002	2,086	3.7%	16.0%	33.7%	31.6%	11.5%	3.6%
2003	1,946	2.6%	16.1%	33.1%	30.9%	12.9%	4.3%
2004	2,014	2.6%	17.4%	30.2%	33.5%	12.4%	4.0%
2005	2,082	2.6%	18.6%	25.6%	35.1%	14.6%	3.4%
2006	2,194	3.2%	20.0%	25.3%	32.1%	14.4%	5.0%
2007	2,249	4.6%	21.5%	23.3%	29.8%	16.2%	4.6%
2008	2,133	3.9%	24.4%	22.3%	26.7%	15.8%	7.0%
2009	1,757	5.0%	24.5%	23.8%	27.7%	14.7%	4.3%
2010	1,780	4.5%	26.2%	22.0%	26.6%	16.3%	4.3%
2011	1,464	4.6%	30.5%	20.5%	24.1%	15.4%	4.8%
2012	1,367	5.3%	31.2%	20.2%	22.8%	14.0%	6.4%
2013	1,318	4.2%	30.2%	23.7%	20.6%	13.8%	7.5%
2014	1,230	3.4%	32.4%	24.9%	19.9%	14.1%	5.3%
Total	54,887	2.7%	23.1%	35.6%	25.4%	9.8%	3.5%

Figure 5A – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 2005-2014, Reported through 12/31/2015

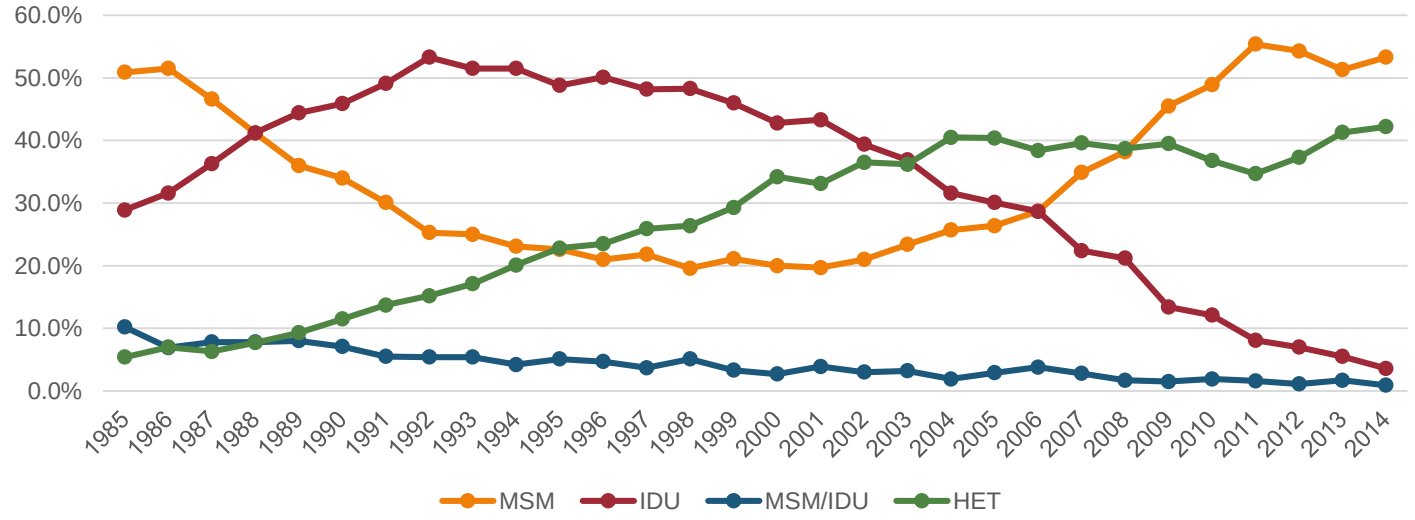
Rate of HIV Diagnosis of Adult/Adolescent Reported HIV Cases by Age, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2005 through 2015, as Reported through 12/31/2015



Year of HIV Diagnosis	Total No. of HIV Diagnoses		Age at HIV Diagnosis					
			Age 13-19	Age 20-29	Age 30-39	Age 40-49	Age 50-59	Age 60+
2005	2,082	Population	557,755	726,703	782,949	914,789	733,711	888,745
		Cases	54	387	533	731	304	71
		Rate	9.7	53.3	68.1	79.9	41.4	8.0
2006	2,194	Population	559,737	743,598	768,314	912,205	754,441	901,830
		Cases	70	439	555	704	316	110
		Rate	12.5	59.0	72.2	77.2	41.9	12.2
2007	2,249	Population	558,452	754,712	756,083	902,196	760,351	934634
		Cases	103	484	524	670	364	103
		Rate	18.5	64.1	69.3	74.3	47.9	11.1
2008	2,133	Population	553,855	763,450	748,586	889,690	773,153	963,533
		Cases	83	520	476	570	337	149
		Rate	15.0	68.2	63.5	64.0	43.6	15.5
2009	1,757	Population	547,568	775,650	744,736	877,993	789,380	994,273
		Cases	88	430	418	487	258	76
		Rate	16.0	55.5	56.1	55.4	32.7	7.6
2010	1,780	Population	559,289	787,246	745,903	879,748	818,608	1,025,421
		Cases	80	466	392	473	290	77
		Rate	14.3	59.2	52.5	53.8	35.4	7.5
2011	1,464	Population	549,363	800,985	746,128	868,133	838,152	1,066,209
		Cases	67	447	300	353	225	70
		Rate	12.3	55.7	40.2	40.6	26.9	6.6
2012	1,367	Population	547,321	811,949	756,067	856,920	853,272	1,098,406
		Cases	72	427	276	312	191	87
		Rate	13.2	52.5	36.5	36.4	22.4	8.0
2013	1,318	Population	539,781	817,635	770,888	836,318	863,937	1,135,027
		Cases	55	398	312	272	182	99
		Rate	10.3	48.7	40.5	32.5	21.1	8.7
2014	1,230	Population	537,622	824,064	784,896	816,003	874,069	1,168,949
		Cases	42	399	306	245	173	65
		Rate	7.8	48.4	39.0	30.0	19.8	5.6

Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Exposure Category, 1985-2014, Reported through 12/31/2015

Percent by Exposure Category of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) and with Reported Exposure Category by Year of HIV Diagnosis from 1985 through 2014, as Reported through 12/31/2015



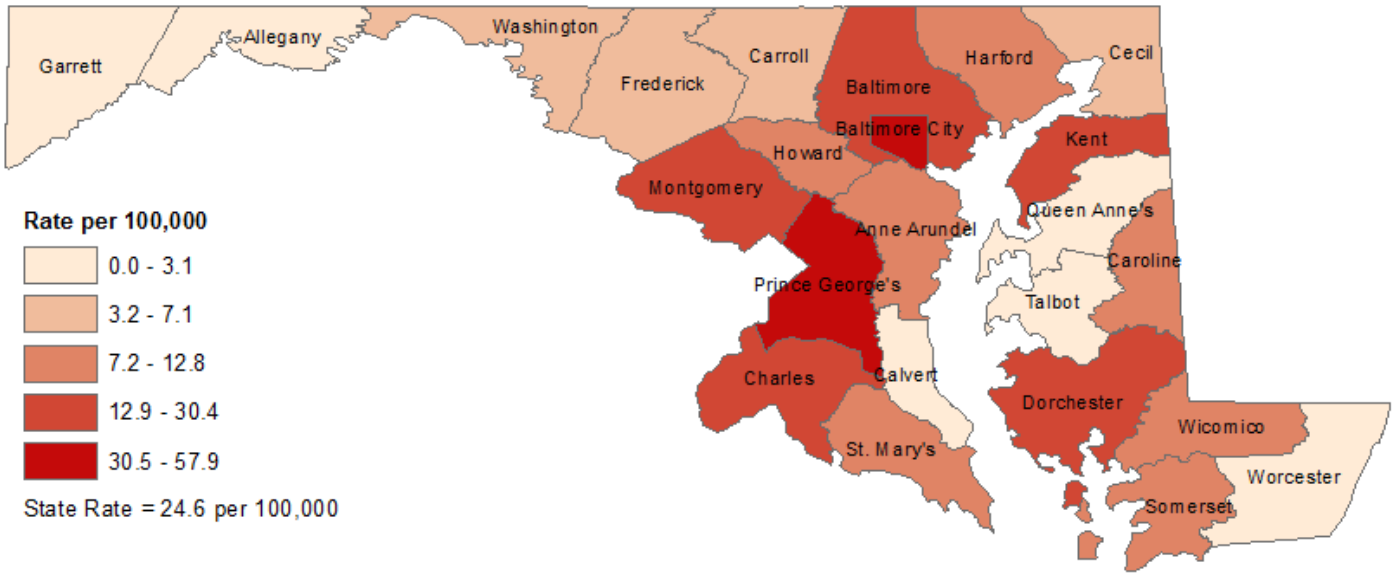
Other Exposure Category not shown

Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses						
	No.	With Exposure Category					
		No.	% MSM	% IDU	% MSM/IDU	% HET	% Other Exposure
<1985	350	329	59.3%	24.6%	7.0%	5.2%	4.0%
1985	689	654	50.9%	28.9%	10.2%	5.4%	4.6%
1986	914	882	51.5%	31.6%	6.9%	7.0%	2.9%
1987	1,234	1,185	46.6%	36.3%	7.8%	6.3%	3.0%
1988	1,662	1,591	41.2%	41.2%	7.8%	7.7%	2.1%
1989	2,133	2,045	36.0%	44.4%	8.0%	9.3%	2.2%
1990	2,206	2,102	34.0%	45.9%	7.1%	11.5%	1.5%
1991	2,556	2,408	30.1%	49.1%	5.5%	13.7%	1.5%
1992	2,429	2,261	25.3%	53.3%	5.4%	15.2%	0.8%
1993	2,164	2,043	25.0%	51.5%	5.4%	17.1%	1.0%
1994	2,001	1,878	23.1%	51.5%	4.2%	20.1%	1.0%
1995	2,003	1,854	22.6%	48.8%	5.1%	22.8%	0.8%
1996	1,855	1,699	21.0%	50.1%	4.7%	23.5%	0.8%
1997	1,881	1,685	21.8%	48.2%	3.7%	25.9%	0.4%
1998	1,857	1,645	19.6%	48.3%	5.1%	26.4%	0.5%
1999	1,788	1,560	21.1%	46.0%	3.3%	29.3%	0.4%
2000	1,706	1,469	20.0%	42.8%	2.7%	34.2%	0.2%
2001	1,839	1,581	19.7%	43.3%	3.9%	33.1%	0.1%
2002	2,086	1,753	21.0%	39.4%	3.0%	36.5%	0.2%
2003	1,946	1,673	23.4%	36.9%	3.2%	36.2%	0.3%
2004	2,014	1,661	25.7%	31.6%	1.9%	40.5%	0.2%
2005	2,082	1,596	26.4%	30.1%	2.9%	40.4%	0.1%
2006	2,194	1,539	28.7%	28.7%	3.8%	38.4%	0.4%
2007	2,249	1,458	34.9%	22.4%	2.8%	39.6%	0.3%
2008	2,133	1,266	38.2%	21.2%	1.7%	38.7%	0.1%
2009	1,757	953	45.5%	13.4%	1.5%	39.5%	0.1%
2010	1,780	946	48.9%	12.1%	1.9%	36.8%	0.3%
2011	1,464	819	55.4%	8.1%	1.6%	34.7%	0.2%
2012	1,367	939	54.3%	7.0%	1.1%	37.3%	0.3%
2013	1,318	996	51.3%	5.5%	1.7%	41.3%	0.2%
2014	1,230	926	53.3%	3.6%	0.9%	42.2%	0.0%
Total	54,887	45,396	31.3%	37.7%	4.4%	25.8%	0.9%

Section III – Adult/Adolescent Cases by Jurisdiction

This section discusses trends of adult/adolescent HIV cases by jurisdiction reported to the Maryland Department of Health and Mental Hygiene as of December 31, 2015. This section also displays CD4 results, the percent linked to care, the percent late diagnosis, viral load test results, and the percent of viral load suppressed providing insight into where current prevention and early treatment strategies should be focused.

Maryland Adult/Adolescent HIV Diagnoses, Rate by Jurisdiction, 2014



A few important numbers:

- The rate of new HIV diagnoses among adults/adolescents in Maryland is **24.6 per 100,000.**

  Jurisdictions with the highest rate of new HIV diagnoses among adults/adolescents in Maryland include:
  - Baltimore City: **57.9 per 100,000**
  - Prince George's County: **47.6 per 100,000**
  - Charles County: **30.4 per 100,000**
  - Baltimore County: **22.9 per 100,000**

- The rate of new AIDS diagnoses among adults/adolescents in Maryland is **12.8 per 100,000.**

  Jurisdictions with the highest rate of new AIDS diagnoses among adults/adolescents in Maryland include:
  - Baltimore City: **37.6 per 100,000**
  - Prince George's County: **23.9 per 100,000**
  - Charles County: **14.8 per 100,000**
  - Caroline County: **11.1 per 100,000**

Table 1 – Adult/Adolescent HIV Diagnoses during 2014, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Jurisdiction, Reported through 12/31/2015

Jurisdiction of Residence at HIV Diagnosis	Population Age 13+	Adult/Adolescent Reported HIV Diagnoses							First CD4 Test Result		
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. Late HIV Diagnosis	% Late HIV Diagnosis	No. with Test	% with Test	Median Count
Allegany	63,865	0	0.0%	0.0	--	--	--	--	--	--	--
Anne Arundel	468,309	51	4.1%	10.9	42	82.4%	12	23.5%	44	86.3%	301
Baltimore City	523,281	303	24.6%	57.9	237	78.2%	81	26.7%	240	79.2%	396
Baltimore	698,028	160	13.0%	22.9	133	83.1%	40	25.0%	131	81.9%	395
Calvert	75,818	2	0.2%	2.6	***	***	***	***	***	***	***
Caroline	26,987	3	0.2%	11.1	***	***	***	***	***	***	***
Carroll	142,505	6	0.5%	4.2	6	100.0%	***	***	***	***	***
Cecil	85,505	5	0.4%	5.8	***	***	***	***	***	***	***
Charles	128,189	39	3.2%	30.4	31	79.5%	11	28.2%	29	74.4%	325
Dorchester	27,470	6	0.5%	21.8	6	100.0%	***	***	***	***	***
Frederick	202,815	12	1.0%	5.9	9	75.0%	***	***	***	***	***
Garrett	25,684	0	0.0%	0.0	--	--	--	--	--	--	--
Harford	210,360	25	2.0%	11.9	22	88.0%	7	28.0%	21	84.0%	584
Howard	256,471	24	2.0%	9.4	17	70.8%	7	29.2%	18	75.0%	435
Kent	17,418	3	0.2%	17.2	***	***	***	***	***	***	***
Montgomery	855,169	179	14.6%	20.9	144	80.4%	62	34.6%	151	84.4%	293
Prince George's	753,706	359	29.2%	47.6	294	81.9%	94	26.2%	291	81.1%	397
Queen Anne's	41,277	1	0.1%	2.4	***	***	***	***	***	***	***
Saint Mary's	90,661	8	0.7%	8.8	7	87.5%	5	62.5%	7	87.5%	138
Somerset	22,645	2	0.2%	8.8	***	***	***	***	***	***	***
Talbot	32,664	1	0.1%	3.1	***	***	***	***	***	***	***
Washington	126,009	9	0.7%	7.1	8	88.9%	***	***	***	***	***
Wicomico	85,525	11	0.9%	12.9	9	81.8%	***	***	***	***	***
Worcester	45,243	0	0.0%	0.0	--	--	--	--	--	--	--
Corrections	--	21	1.7%	--	16	76.2%	***	***	***	***	***
Total	5,005,603	1,230	100.0%	24.6	997	81.1%	340	27.6%	1,002	81.5%	374

*** Data withheld due to low population counts and/or case counts

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2014.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Number and percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 2 – Adult/Adolescent AIDS Diagnoses during 2014, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction, Reported through 12/31/2015

Jurisdiction of Residence at AIDS Diagnosis	Population Age 13+	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Allegany	63,865	0	0.0%	0.0	--	--
Anne Arundel	468,309	22	3.4%	4.7	6.7	50.0%
Baltimore City	523,281	197	30.8%	37.6	4.6	44.2%
Baltimore	698,028	65	10.2%	9.3	3.9	53.8%
Calvert	75,818	1	0.2%	1.3	***	***
Caroline	26,987	3	0.5%	11.1	***	***
Carroll	142,505	4	0.6%	2.8	***	***
Cecil	85,505	2	0.3%	2.3	***	***
Charles	128,189	19	3.0%	14.8	2.8	57.9%
Dorchester	27,470	1	0.2%	3.6	***	***
Frederick	202,815	5	0.8%	2.5	4.6	40.0%
Garrett	25,684	0	0.0%	0.0	--	--
Harford	210,360	14	2.2%	6.7	2.9	50.0%
Howard	256,471	13	2.0%	5.1	2.3	61.5%
Kent	17,418	1	0.2%	5.7	***	***
Montgomery	855,169	87	13.6%	10.2	2.0	74.7%
Prince George's	753,706	180	28.2%	23.9	3.2	58.9%
Queen Anne's	41,277	2	0.3%	4.8	***	***
Saint Mary's	90,661	5	0.8%	5.5	0.2	100.0%
Somerset	22,645	0	0.0%	0.0	--	--
Talbot	32,664	1	0.2%	3.1	***	***
Washington	126,009	2	0.3%	1.6	***	***
Wicomico	85,525	6	0.9%	7.0	6.1	50.0%
Worcester	45,243	0	0.0%	0.0	--	--
Corrections	--	9	1.4%	--	4.2	22.2%
Total	5,005,603	639	100.0%	12.8	3.6	55.6%

*** Data withheld due to low population counts and/or case counts

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.
Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.
Population Age 13+: Population age 13 years or older, estimate for 7/1/2014.
Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).
Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.
Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2014, by Jurisdiction, Reported through 12/31/2015

Jurisdiction of Residence at Diagnosis	Population Age 13+	Adult/Adolescent Living HIV Cases without AIDS			Adult/Adolescent Living HIV Cases with AIDS			Adult/Adolescent Total Living HIV Cases			
		No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
Allegany	63,865	38	0.3%	59.5	30	0.2%	47.0	68	0.2%	106.5	939
Anne Arundel	468,309	496	3.6%	105.9	618	3.7%	132.0	1,114	3.7%	237.9	420
Baltimore City	523,281	5,446	39.2%	1,040.7	6,717	40.6%	1,283.6	12,163	39.9%	2,324.4	43
Baltimore	698,028	1,223	8.8%	175.2	1,444	8.7%	206.9	2,667	8.8%	382.1	261
Calvert	75,818	51	0.4%	67.3	52	0.3%	68.6	103	0.3%	135.9	736
Caroline	26,987	27	0.2%	100.0	32	0.2%	118.6	59	0.2%	218.6	457
Carroll	142,505	55	0.4%	38.6	68	0.4%	47.7	123	0.4%	86.3	1,158
Cecil	85,505	48	0.3%	56.1	58	0.4%	67.8	106	0.3%	124.0	806
Charles	128,189	200	1.4%	156.0	173	1.0%	135.0	373	1.2%	291.0	343
Dorchester	27,470	38	0.3%	138.3	74	0.4%	269.4	112	0.4%	407.7	245
Frederick	202,815	152	1.1%	74.9	150	0.9%	74.0	302	1.0%	148.9	671
Garrett	25,684	3	0.0%	11.7	3	0.0%	11.7	6	0.0%	23.4	4,280
Harford	210,360	186	1.3%	88.4	226	1.4%	107.4	412	1.4%	195.9	510
Howard	256,471	254	1.8%	99.0	250	1.5%	97.5	504	1.7%	196.5	508
Kent	17,418	15	0.1%	86.1	18	0.1%	103.3	33	0.1%	189.5	527
Montgomery	855,169	1,624	11.7%	189.9	1,930	11.7%	225.7	3,554	11.7%	415.6	240
Prince George's	753,706	3,128	22.5%	415.0	3,426	20.7%	454.6	6,554	21.5%	869.6	114
Queen Anne's	41,277	16	0.1%	38.8	31	0.2%	75.1	47	0.2%	113.9	878
Saint Mary's	90,661	59	0.4%	65.1	66	0.4%	72.8	125	0.4%	137.9	725
Somerset	22,645	20	0.1%	88.3	28	0.2%	123.6	48	0.2%	212.0	471
Talbot	32,664	21	0.2%	64.3	31	0.2%	94.9	52	0.2%	159.2	628
Washington	126,009	167	1.2%	132.5	133	0.8%	105.5	300	1.0%	238.1	420
Wicomico	85,525	93	0.7%	108.7	102	0.6%	119.3	195	0.6%	228.0	438
Worcester	45,243	30	0.2%	66.3	46	0.3%	101.7	76	0.2%	168.0	595
Corrections	--	514	3.7%	--	853	5.2%	--	1,367	4.5%	--	--
Total	5,005,603	13,904	100.0%	277.8	16,559	100.0%	330.8	30,463	100.0%	608.6	164

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2014.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 3A – Adult/Adolescent HIV Cases Alive on 12/31/2014, by Jurisdiction and Current Residence, Reported through 12/31/2015

Adult/Adolescent Living HIV Cases with or without AIDS Diagnosis															
Jurisdiction of Residence	Population Age 13+	Residence at HIV Diagnosis				Last Known Residence				% Change	Current Residence 2009-2015				% Change
		No.	% of Total	Rate	Ratio	No.	% of Total	Rate	Ratio		No.	% of Total	Rate	Ratio	
Allegany	63,865	68	0.2%	106.5	939	113	0.3%	176.9	565	66.2%	94	0.3%	147.2	679	38.2%
Anne Arundel	468,309	1,114	3.7%	237.9	420	1,292	3.9%	275.9	362	16.0%	1,073	4.0%	229.1	436	-3.7%
Baltimore City	523,281	12,163	39.9%	2,324.4	43	12,209	36.6%	2,333.2	42	0.4%	9,973	36.8%	1,905.9	52	-18.0%
Baltimore	698,028	2,667	8.8%	382.1	261	3,428	10.3%	491.1	203	28.5%	2,918	10.8%	418.0	239	9.4%
Calvert	75,818	103	0.3%	135.9	736	128	0.4%	168.8	592	24.3%	114	0.4%	150.4	665	10.7%
Caroline	26,987	59	0.2%	218.6	457	69	0.2%	255.7	391	16.9%	50	0.2%	185.3	539	-15.3%
Carroll	142,505	123	0.4%	86.3	1,158	137	0.4%	96.1	1,040	11.4%	106	0.4%	74.4	1,344	-13.8%
Cecil	85,505	106	0.3%	124.0	806	153	0.5%	178.9	558	44.3%	109	0.4%	127.5	784	2.8%
Charles	128,189	373	1.2%	291.0	343	465	1.4%	362.7	275	24.7%	403	1.5%	314.4	318	8.0%
Dorchester	27,470	112	0.4%	407.7	245	132	0.4%	480.5	208	17.9%	113	0.4%	411.4	243	0.9%
Frederick	202,815	302	1.0%	148.9	671	394	1.2%	194.3	514	30.5%	318	1.2%	156.8	637	5.3%
Garrett	25,684	6	0.0%	23.4	4,280	14	0.0%	54.5	1,834	133.3%	10	0.0%	38.9	2,568	66.7%
Harford	210,360	412	1.4%	195.9	510	485	1.5%	230.6	433	17.7%	405	1.5%	192.5	519	-1.7%
Howard	256,471	504	1.7%	196.5	508	610	1.8%	237.8	420	21.0%	500	1.8%	195.0	512	-0.8%
Kent	17,418	33	0.1%	189.5	527	42	0.1%	241.1	414	27.3%	33	0.1%	189.5	527	0.0%
Montgomery	855,169	3,554	11.7%	415.6	240	3,722	11.2%	435.2	229	4.7%	2,766	10.2%	323.4	309	-22.2%
Prince George's	753,706	6,554	21.5%	869.6	114	7,832	23.5%	1,039.1	96	19.5%	6,419	23.7%	851.7	117	-2.1%
Queen Anne's	41,277	47	0.2%	113.9	878	54	0.2%	130.8	764	14.9%	46	0.2%	111.4	897	-2.1%
Saint Mary's	90,661	125	0.4%	137.9	725	157	0.5%	173.2	577	25.6%	140	0.5%	154.4	647	12.0%
Somerset	22,645	48	0.2%	212.0	471	70	0.2%	309.1	323	45.8%	62	0.2%	273.8	365	29.2%
Talbot	32,664	52	0.2%	159.2	628	72	0.2%	220.4	453	38.5%	58	0.2%	177.6	563	11.5%
Washington	126,009	300	1.0%	238.1	420	419	1.3%	332.5	300	39.7%	320	1.2%	254.0	393	6.7%
Wicomico	85,525	195	0.6%	228.0	438	254	0.8%	297.0	336	30.3%	205	0.8%	239.7	417	5.1%
Worcester	45,243	76	0.2%	168.0	595	96	0.3%	212.2	471	26.3%	76	0.3%	168.0	595	0.0%
Corrections	--	1,367	4.5%	--	--	988	3.0%	--	--	-27.7%	809	3.0%	--	--	-40.8%
Total	5,005,603	30,463	100.0%	608.6	164	33,335	100.0%	666.0	150	9.4%	27,120	100.0%	541.8	184	-11.0%

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.
Jurisdiction of Residence: Jurisdiction of residence at time of initial HIV diagnosis or most recent lab test.
Population Age 13+: Population age 13 years or older, estimate for 7/1/2014.
Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.
Last Known Residence: Jurisdiction of residence from the most recent laboratory test or case report, reported through 12/31/2015.
Current Residence 2009-2015: Jurisdiction of residence from the most recent laboratory test or case report between 1/1/2009-12/31/2015.
Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).
Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.
Percent Change: The extent to which a county gained or lost HIV/AIDS cases relative to the number of cases diagnosed in the county.

For additional information regarding current residence see the Maryland Current Residence Supplemental HIV Epidemiological Profile found here: http://phpa.dhmh.maryland.gov/OIDEOR/CHSE/Pages/statistics.aspx

Table 4 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2014, Reported through 12/31/2015

Jurisdiction of Residence at Diagnosis	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Allegany	68	44	64.7%	648	4.5%	9.1%	15.9%	70.5%
Anne Arundel	1,114	623	55.9%	526	12.5%	16.9%	17.5%	53.1%
Baltimore City	12,163	7,310	60.1%	525	13.3%	14.7%	18.7%	53.3%
Baltimore	2,667	1,614	60.5%	527	13.6%	13.5%	19.1%	53.8%
Calvert	103	65	63.1%	631	6.2%	12.3%	15.4%	66.2%
Caroline	59	36	61.0%	581	8.3%	16.7%	11.1%	63.9%
Carroll	123	60	48.8%	566	18.3%	6.7%	20.0%	55.0%
Cecil	106	53	50.0%	498	5.7%	22.6%	22.6%	49.1%
Charles	373	225	60.3%	588	13.3%	12.0%	12.0%	62.7%
Dorchester	112	77	68.8%	547	7.8%	15.6%	19.5%	57.1%
Frederick	302	155	51.3%	539	8.4%	10.3%	21.9%	59.4%
Garrett	6	***	***	***	***	***	***	***
Harford	412	256	62.1%	558	17.6%	11.7%	16.0%	54.7%
Howard	504	282	56.0%	577	13.1%	9.6%	17.4%	59.9%
Kent	33	***	***	***	***	***	***	***
Montgomery	3,554	1,758	49.5%	538	10.5%	14.4%	19.5%	55.6%
Prince George's	6,554	3,534	53.9%	515	13.0%	15.0%	19.6%	52.4%
Queen Anne's	47	30	63.8%	640	10.0%	10.0%	16.7%	63.3%
Saint Mary's	125	84	67.2%	493	7.1%	16.7%	27.4%	48.8%
Somerset	48	39	81.3%	559	5.1%	12.8%	20.5%	61.5%
Talbot	52	37	71.2%	408	18.9%	18.9%	18.9%	43.2%
Washington	300	157	52.3%	626	8.9%	7.0%	17.8%	66.2%
Wicomico	195	119	61.0%	535	11.8%	19.3%	15.1%	53.8%
Worcester	76	48	63.2%	557	14.6%	16.7%	8.3%	60.4%
Corrections	1,367	800	58.5%	480	16.1%	17.6%	18.6%	47.6%
Total	30,463	17,427	57.2%	528	12.9%	14.6%	18.8%	53.7%

*** Data withheld due to low population counts and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Table 5 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2014, by Jurisdiction, Reported through 12/31/2015

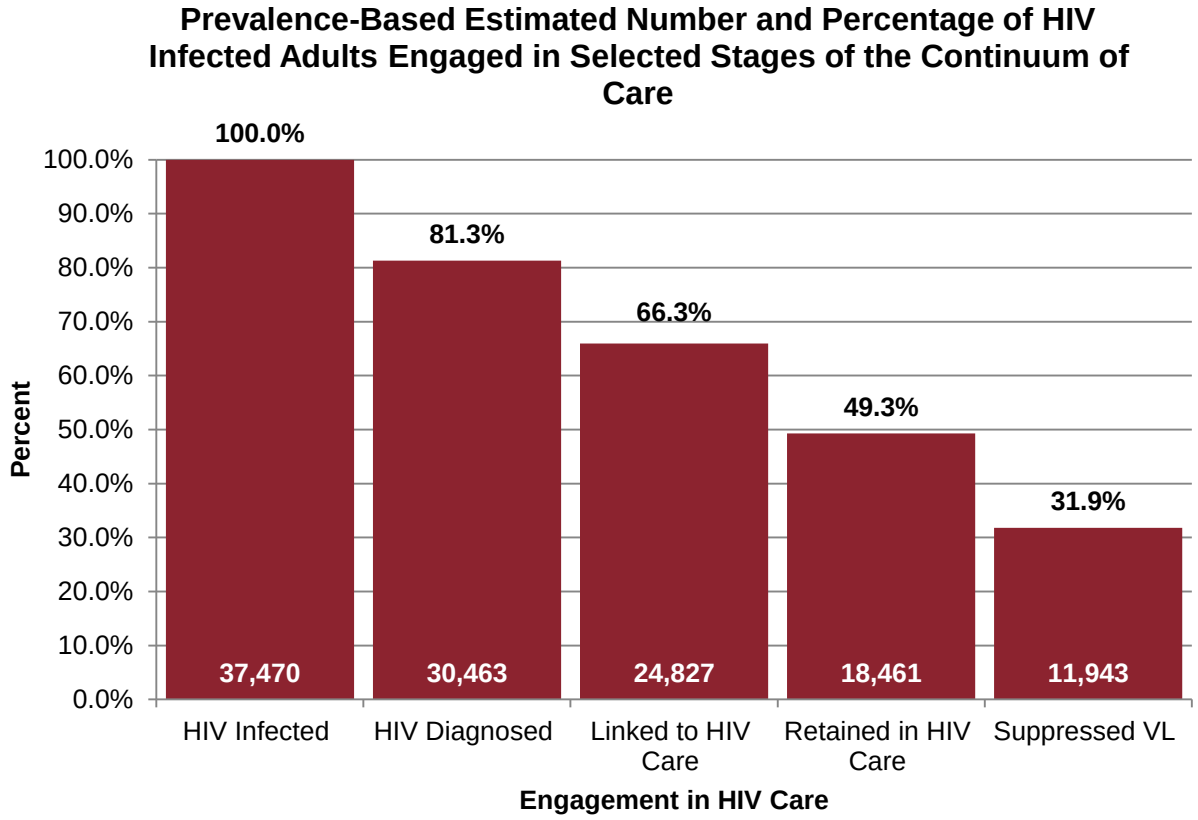
Jurisdiction of Residence at Diagnosis	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Allegany	68	43	63.2%	86.0%	2,543
Anne Arundel	1,114	558	50.1%	74.0%	10,735
Baltimore City	12,163	6,289	51.7%	70.8%	8,244
Baltimore	2,667	1,393	52.2%	74.0%	12,511
Calvert	103	63	61.2%	92.1%	34,480
Caroline	59	33	55.9%	90.9%	1,234
Carroll	123	55	44.7%	76.4%	21,080
Cecil	106	51	48.1%	76.5%	12,702
Charles	373	229	61.4%	73.8%	13,934
Dorchester	112	69	61.6%	91.3%	7,730
Frederick	302	162	53.6%	88.9%	4,095
Garrett	6	***	***	***	***
Harford	412	224	54.4%	78.1%	15,136
Howard	504	272	54.0%	78.3%	7,838
Kent	33	***	***	***	***
Montgomery	3,554	1,759	49.5%	84.3%	8,501
Prince George's	6,554	3,518	53.7%	77.5%	11,465
Queen Anne's	47	27	57.4%	81.5%	3,162
Saint Mary's	125	85	68.0%	78.8%	4,566
Somerset	48	36	75.0%	75.0%	17,378
Talbot	52	35	67.3%	80.0%	22,486
Washington	300	152	50.7%	92.8%	14,230
Wicomico	195	114	58.5%	78.9%	7,600
Worcester	76	47	61.8%	83.0%	1,030
Corrections	1,367	647	47.3%	66.5%	9,117
Total	30,463	15,881	52.1%	75.2%	9,730

*** Data withheld due to low population counts and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.
Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.
Recent Viral Load Test Result: The most recent viral load test result reported in the 12 months prior to December 31st of the specified year.
Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.
Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result reported in the 12 months prior to December 31st of the specified year of 200 copies per milliliter or greater.

Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, Reported through 12/31/2015

In their 2011 article in Clinical Infectious Diseases, Gardner et al.[1] utilize a continuum of care "cascade" to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care. The prevalence based Maryland Engagement in HIV Care Cascade (below) uses a CDC estimate of the percentage of undiagnosed persons in Maryland (18.7%)[2] to generate an estimated number of HIV infected persons in Maryland. It then uses local data to describe the number and percentage of persons living with HIV in Maryland who belong to each of the stages of engagement in HIV care.



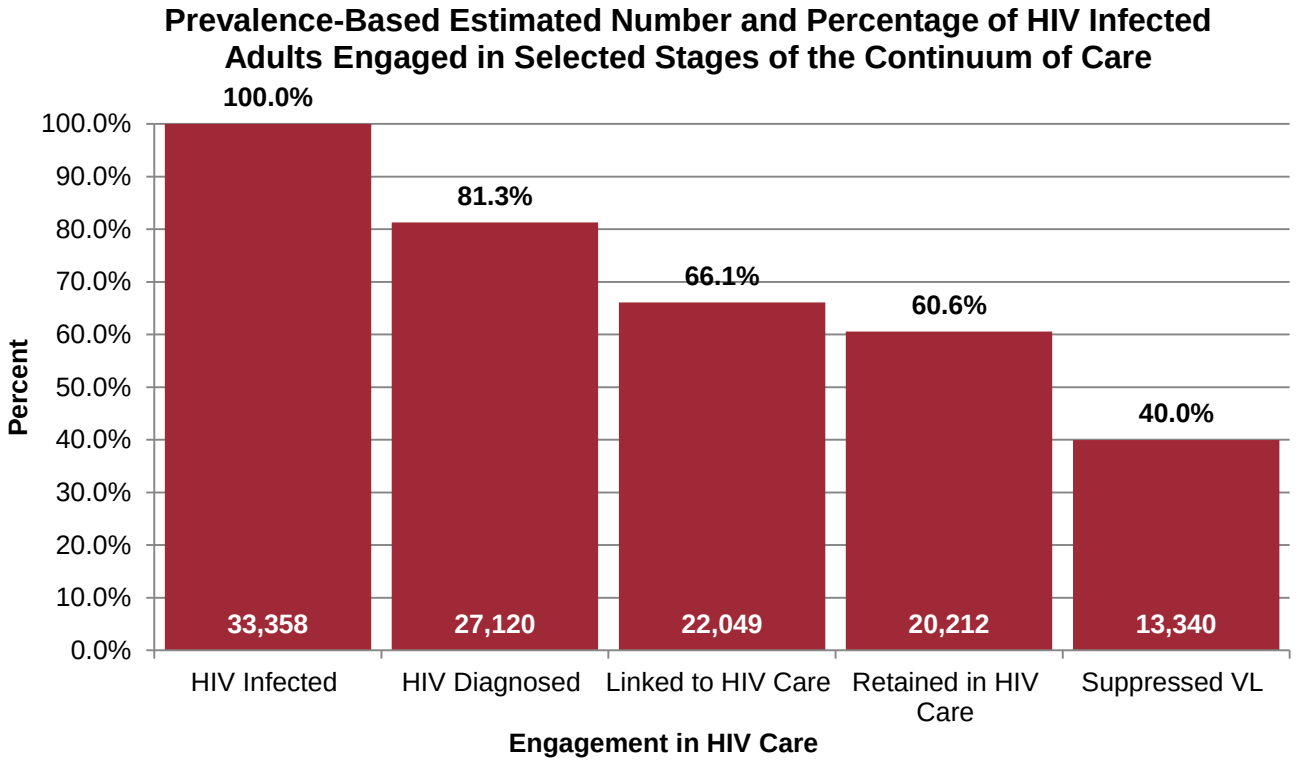
Continuum of Care Stage	Number	Percentage
HIV Infected	37,470	100.0%
HIV Diagnosed	30,463	81.3%
Linked to HIV Care	24,827	66.3%
Retained in HIV Care	18,461	49.3%
Suppressed VL	11,943	31.9%

HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (18.7%) in Maryland.
HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.
Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.
Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result reported in the 12 months prior to December 31st of the specified year.
Suppressed Viral Load: HIV Diagnosed with the most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

[1] Gardner et al, "The Spectrum of Engagement in HIV Care and its Relevance to Test and Treat Strategies for Prevention of HIV Infection." Clin Infect Dis. 2011; 52 (6): 7930-800.
[2] Centers for Disease Control and Prevention, Morbidity and Mortality Weekly Report, June 26, 2015.

Figure 7A – Prevalence-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, by Current Residence, Reported through 12/31/2015

The prevalence based Maryland Engagement in HIV Care Cascade (below) uses a CDC estimate of the percentage of undiagnosed persons in Maryland (18.7%)[1] to generate an estimated number of HIV infected persons in Maryland. It then uses local data for current Maryland residents to describe the number and percentage of persons living with HIV in Maryland who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Number	Percentage
HIV Infected	33,358	100.0%
HIV Diagnosed	27,120	81.3%
Linked to HIV Care	22,049	66.1%
Retained in HIV Care	20,212	60.6%
Suppressed VL	13,340	40.0%

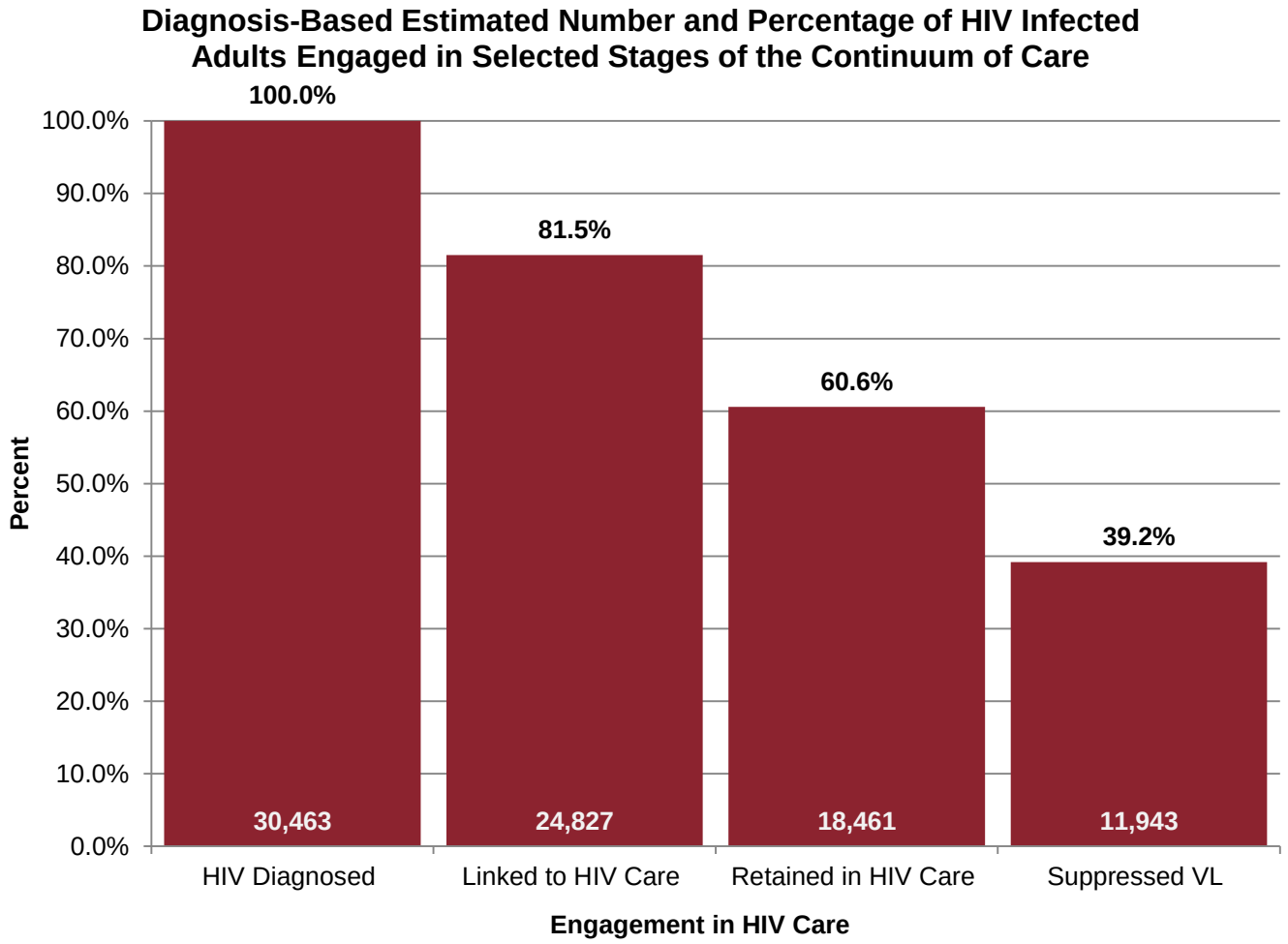
HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (18.7%) in Maryland.
HIV Diagnosed: Adult/adolescent total living HIV as of December 31st of the specified year with a recent address in Maryland between 2009 and 2015.
Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.
Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result reported in the 12 months prior to December 31st of the specified year.
Suppressed Viral Load: HIV Diagnosed with the most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

For additional information regarding current residence please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health and Mental Hygiene at 410-767-5227.

[1] Centers for Disease Control and Prevention, Morbidity and Mortality Weekly Report, June 26, 2015.

Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, Reported through 12/31/2015

The diagnosis based Maryland Engagement in HIV Care Cascade (below) uses local data to describe the number and percentage of persons diagnosed with HIV in Maryland who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Number	Percentage
HIV Diagnosed	30,463	100.0%
Linked to HIV Care	24,827	81.5%
Retained in HIV Care	18,461	60.6%
Suppressed VL	11,943	39.2%

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.

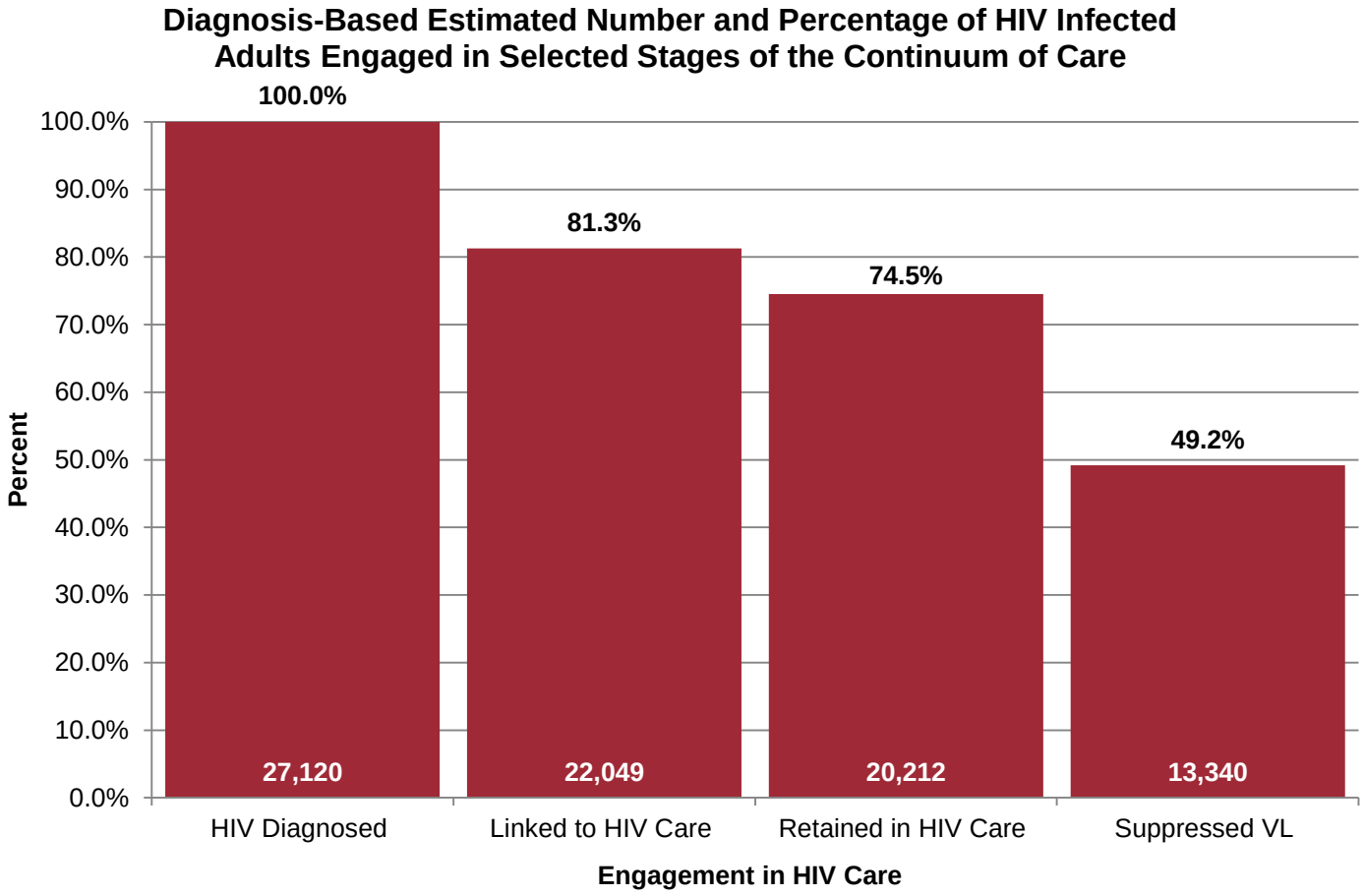
Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result reported in the 12 months prior to December 31st of the specified year

Suppressed Viral Load: HIV Diagnosed with the most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

Figure 8A – Diagnosis-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, by Current Residence, Reported through 12/31/2015

The diagnosis based Maryland Engagement in HIV Care Cascade (below) uses local data for current Maryland residents to describe the number and percentage of persons diagnosed with HIV in Maryland who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Number	Percentage
HIV Diagnosed	27,120	100.0%
Linked to HIV Care	22,049	81.3%
Retained in HIV Care	20,212	74.5%
Suppressed VL	13,340	49.2%

HIV Diagnosed: Adult/adolescent total living HIV as of December 31st of the specified year with a recent address in Maryland between 2009 and 2015.
Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.
Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result reported in the 12 months prior to December 31st of the specified year
Suppressed Viral Load: HIV Diagnosed with the most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

For additional information regarding current residence see the Maryland Current Residence Supplemental HIV Epidemiological Profile found here: http://phpa.dhmh.maryland.gov/OIDEOR/CHSE/Pages/statistics.aspx

Section IV – Cases by Age

Table 6 – HIV Diagnoses during 2014, First CD4 Test Result, Percent Linked to Care, Percent Late Diagnosis, by Age at HIV Diagnosis, Reported through 12/31/2015

Age at HIV Diagnosis	Population	Reported HIV Diagnoses							First CD4 Test Result		
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. Late Diagnosis	% Late Diagnosis	No. with Test	% with Test	Median Count
<5 (Pediatric)	369,754	4	0.3%	1.1	***	***	***	***	***	***	***
5-12 (Pediatric)	601,050	1	0.1%	0.2	***	***	***	***	***	***	***
13-19	537,622	42	3.4%	7.8	39	92.9%	***	***	35	83.3%	500
20-29	824,064	399	32.3%	48.4	310	77.7%	68	17.0%	319	79.9%	419
30-39	784,896	306	24.8%	39.0	254	83.0%	93	30.4%	250	81.7%	373
40-49	816,003	245	19.8%	30.0	201	82.0%	88	35.9%	201	82.0%	282
50-59	874,069	173	14.0%	19.8	139	80.3%	60	34.7%	145	83.8%	289
60+	1,168,949	65	5.3%	5.6	54	83.1%	28	43.1%	52	80.0%	184
Total	5,976,407	1,235	100.0%	20.7	1,002	81.1%	341	27.6%	1,006	81.5%	376

*** Data withheld due to low population counts and/or case counts

Table 7 – AIDS Diagnoses during 2014, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Age at AIDS Diagnosis, Reported through 12/31/2015

Age at AIDS Diagnosis	Population	Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
<5 (Pediatric)	369,754	1	0.2%	0.3	***	***
5-12 (Pediatric)	601,050	0	0.0%	0.0	--	--
13-19	537,622	3	0.5%	0.6	***	***
20-29	824,064	112	17.4%	13.6	2.2	59.8%
30-39	784,896	167	26.0%	21.3	2.5	59.9%
40-49	816,003	183	28.5%	22.4	4.3	53.6%
50-59	874,069	121	18.8%	13.8	5.2	47.9%
60+	1,168,949	56	8.7%	4.8	4.8	53.6%
Total	5,976,407	643	100.0%	10.8	3.7	55.4%

*** Data withheld due to low population counts and/or case counts

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.
Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.
Population: Population estimate for 7/1/2014.
Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).
First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.
Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.
Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.
Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Table 8 – HIV Cases Alive on 12/31/2014, by Age on 12/31/2014, Reported through 12/31/2015

Age On 12/31/2014	Population	Living HIV Cases without AIDS			Living HIV Cases with AIDS			Total Living HIV Cases			
		No.	%	Rate	No.	%	Rate	No.	%	Rate	Ratio (1 in X)
<5	369,754	8	0.1%	2.2	2	0.0%	0.5	10	0.0%	2.7	36,975
5-12	601,050	56	0.4%	9.3	7	0.0%	1.2	63	0.2%	10.5	9,540
13-19	537,622	157	1.1%	29.2	60	0.4%	11.2	217	0.7%	40.4	2,477
20-29	824,064	2,240	15.8%	271.8	927	5.5%	112.5	3,167	10.2%	384.3	260
30-39	784,896	2,966	20.9%	377.9	2,166	12.9%	276.0	5,132	16.6%	653.8	152
40-49	816,003	3,499	24.7%	428.8	4,788	28.5%	586.8	8,287	26.8%	1,015.6	98
50-59	874,069	3,641	25.7%	416.6	6,064	36.1%	693.8	9,705	31.3%	1,110.3	90
60+	1,168,949	1,601	11.3%	137.0	2,776	16.5%	237.5	4,377	14.1%	374.4	267
Total	5,976,407	14,168	100.0%	237.1	16,790	100.0%	280.9	30,958	100.0%	518.0	193

Age on [date]: Age group of living cases on the specified date.
Population: Population estimate for 7/1/2014.
Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.
Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.
Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.
Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).
Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 9 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2014, by Age on 12/31/2014, Reported through 12/31/2015

Age On 12/31/2014	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	86	56	65.1%	508	3.6%	17.9%	23.2%	55.4%
20-29	2,896	1,744	60.2%	527	11.5%	13.1%	21.4%	54.0%
30-39	5,112	2,926	57.2%	538	13.2%	12.9%	19.3%	54.6%
40-49	8,287	4,641	56.0%	519	14.3%	14.8%	18.1%	52.8%
50-59	9,705	5,640	58.1%	535	13.0%	15.1%	17.8%	54.1%
60+	4,377	2,420	55.3%	521	10.9%	16.2%	19.7%	53.1%
Total	30,463	17,427	57.2%	528	12.9%	14.6%	18.8%	53.7%

Table 10 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2014, by Age on 12/31/2014, Reported through 12/31/2015

Age On 12/31/2014	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
13-19	86	59	68.6%	35.6%	2,702
20-29	2,896	1,738	60.0%	59.8%	12,336
30-39	5,112	2,779	54.4%	71.7%	13,607
40-49	8,287	4,268	51.5%	75.1%	9,840
50-59	9,705	5,001	51.5%	79.0%	7,225
60+	4,377	2,036	46.5%	84.8%	5,570
Total	30,463	15,881	52.1%	75.2%	9,730

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age on [date]: Age group of living cases on the specified date.

Recent CD4 Test Result: The most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result reported in the 12 months prior to December 31st of the specified year

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result reported in the 12 months prior to December 31st of the specified year.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result reported in the 12 months prior to December 31st of the specified year of 200 copies per milliliter or greater.

Section V – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2014, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 12/31/2015

Sex At Birth	Population Age 13+*	Adult/Adolescent Reported HIV Diagnoses							First CD4 Test Result		
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. of % Late Diagnosis	% Late Diagnosis	No. with Test	% with Test	Median Count
Male	2,401,118	871	70.8%	36.3	697	80.0%	230	26.4%	706	81.1%	397
Female	2,604,485	359	29.2%	13.8	300	83.6%	110	30.6%	296	82.5%	307
Total	5,005,603	1,230	100.0%	24.6	997	81.1%	340	27.6%	1,002	81.5%	374

Race/Ethnicity	Population Age 13+*	Adult/Adolescent Reported HIV Diagnoses							First CD4 Test Result		
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. of % Late Diagnosis	% Late Diagnosis	No. with Test	% with Test	Median Count
Hispanic	417,605	104	8.5%	24.9	78	75.0%	42	40.4%	89	85.6%	272
Non-Hispanic	4,587,998	1,126	91.5%	24.5	919	81.6%	298	26.5%	913	81.1%	384
American Indian/Alaska Native, only	12,396	1	0.1%	8.1	***	***	***	***	***	***	***
Asian, only	313,645	14	1.1%	4.5	***	***	***	***	***	***	***
Black, only	1,448,739	913	74.2%	63.0	748	81.9%	247	27.1%	744	81.5%	382
Native Hawaiian/ Other Pacific Islander, only	2,545	0	0.0%	0.0	--	--	--	--	--	--	--
White only	2,727,042	151	12.3%	5.5	119	78.8%	35	23.2%	113	74.8%	425
Multiracial/ Other	83,633	47	3.8%	56.2	40	85.1%	11	23.4%	44	93.6%	414
Total	5,005,603	1,230	100.0%	24.6	997	81.1%	340	27.6%	1,002	81.5%	374

Country of Birth	Population Age 13+**	Adult/Adolescent Reported HIV Diagnoses							First CD4 Test Result		
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. of % Late Diagnosis	% Late Diagnosis	No. with Test	% with Test	Median Count
United States	4,118,084	978	79.5%	23.7	774	79.1%	257	26.3%	781	79.9%	385
Foreign-born	796,805	135	11.0%	16.9	117	86.7%	53	39.3%	122	90.4%	296
Africa	--	95	7.7%	--	85	89.5%	35	36.8%	87	91.6%	297
Asia	--	10	0.8%	--	8	80.0%	***	***	8	80.0%	400
Caribbean	--	10	0.8%	--	9	90.0%	***	***	10	100.0%	373
Central America	--	15	1.2%	--	10	66.7%	8	53.3%	12	80.0%	156
Other	--	5	0.4%	--	5	100.0%	***	***	5	100.0%	123
Unknown	--	117	9.5%	--	106	90.6%	30	25.6%	99	84.6%	403
Total	4,914,889	1,230	100.0%	25.0	997	81.1%	340	27.6%	1,002	81.5%	374

* Population data by sex at birth, age, and race/ethnicity are from the 2014 U.S. Census population estimates

** Population data by country of birth are from the 2013 American Community Survey

*** Data withheld due to low population and/or case counts

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2014.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 12 – Adult/Adolescent AIDS Diagnoses during 2014, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 12/31/2015

Sex At Birth	Population Age 13+*	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Male	2,401,118	418	65.4%	17.4	3.7	57.2%
Female	2,604,485	221	34.6%	8.5	3.5	52.5%
Total	5,005,603	639	100.0%	12.8	3.6	55.6%

Race/Ethnicity	Population Age 13+*	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Hispanic	417,605	51	8.0%	12.2	1.3	76.5%
Non-Hispanic	4,587,998	588	92.0%	12.8	3.8	53.7%
American Indian/Alaska Native, only	12,396	0	0.0%	0.0	--	0.0%
Asian, only	313,645	7	1.1%	2.2	0.3	100.0%
Black, only	1,448,739	482	75.4%	33.3	3.8	54.8%
Native Hawaiian/Other Pacific Islander, only	2,545	0	0.0%	0.0	--	0.0%
White only	2,727,042	69	10.8%	2.5	4.2	49.3%
Multiracial/Other	83,633	30	4.7%	35.9	4.3	36.7%
Total	5,005,603	639	100.0%	12.8	3.6	55.6%

County Of Birth	Population Age 13+**	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
United States	4,118,084	534	83.6%	13.0	4.1	49.6%
Foreign-born	796,805	72	11.3%	9.0	1.3	81.9%
Africa	--	48	7.5%	--	1.0	85.4%
Asia	--	4	0.6%	--	***	***
Caribbean	--	5	0.8%	--	4.2	60.0%
Central America	--	11	1.7%	--	1.7	72.7%
Other	--	4	0.6%	--	***	***
Unknown	--	33	5.2%	--	0.4	93.9%
Total	4,914,889	639	100.0%	13.0	3.6	55.6%

* Population data by sex at birth, age, and race/ethnicity are from the 2014 U.S. Census population estimates
** Population data by country of birth are from the 2013 American Community Survey
*** Data withheld due to low population and/or case counts

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.
Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2014.
Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).
Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.
Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 13 – Adult/Adolescent Living HIV Cases with and without AIDS by Sex at Birth, Race/Ethnicity, and Country of Birth, Alive on 12/31/2014 and Reported through 12/31/2015

Sex At Birth	Population Age 13+	Adult/Adolescent Living HIV Cases without AIDS			Adult/Adolescent Living HIV Cases with AIDS			Adult/Adolescent Total Living HIV Cases			
		No.	%	Rate	No.	%	Rate	No.	%	Rate	Ratio (1 in X)
Male	2,401,118	9,033	65.0%	376.2	10,784	65.1%	449.1	19,817	65.1%	825.3	121
Female	2,604,485	4,871	35.0%	187.0	5,775	34.9%	221.7	10,646	34.9%	408.8	244
Total	5,005,603	13,904	100.0%	277.8	16,559	100.0%	330.8	30,463	100.0%	608.6	164

Race/Ethnicity	Population Age 13+*	Adult/Adolescent Living HIV Cases without AIDS			Adult/Adolescent Living HIV Cases with AIDS			Adult/Adolescent Total Living HIV Cases			
		No.	%	Rate	No.	%	Rate	No.	%	Rate	Ratio (1 in X)
Hispanic	417,605	675	4.9%	161.6	939	5.7%	224.9	1,614	5.3%	386.5	258
Non-Hispanic	4,587,998	13,229	95.1%	288.3	15,620	94.3%	340.5	28,849	94.7%	628.8	159
American Indian/Alaska Native, only	12,396	17	0.1%	137.1	8	0.0%	64.5	25	0.1%	201.7	495
Asian, only	313,645	100	0.7%	31.9	61	0.4%	19.4	161	0.5%	51.3	1948
Black, only	1,448,739	10,454	75.2%	721.6	12,496	75.5%	862.5	22,950	75.3%	1,584.1	63
Native Hawaiian/ Other Pacific Islander, only	2,545	5	0.0%	196.5	3	0.0%	117.9	8	0.0%	314.3	318
White only	2,727,042	2,167	15.6%	79.5	2,241	13.5%	82.2	4,408	14.5%	161.6	618
Multiracial/ Other	83,633	486	3.5%	581.1	811	4.9%	969.7	1,297	4.3%	1,550.8	64
Total	5,005,603	13,904	100.0%	277.8	16,559	100.0%	330.8	30,463	100.0%	608.6	164

Country Of Birth	Population Age 13+**	Adult/Adolescent Living HIV Cases without AIDS			Adult/Adolescent Living HIV Cases with AIDS			Adult/Adolescent Total Living HIV Cases			
		No.	%	Rate	No.	%	Rate	No.	%	Rate	Ratio (1 in X)
United States	4,118,084	12,453	89.6%	302.4	14,725	88.9%	357.6	27,178	89.2%	660.0	151
Foreign-born	796,805	952	6.8%	119.5	1,600	9.7%	200.8	2,552	8.4%	320.3	312
Africa	--	569	4.1%	--	987	61.7%	--	1,556	61.0%	--	--
Asia	--	51	0.4%	--	63	3.9%	--	114	4.5%	--	--
Caribbean	--	82	0.6%	--	134	8.4%	--	216	8.5%	--	--
Central America	--	143	1.0%	--	274	17.1%	--	417	16.3%	--	--
Other	--	107	0.8%	--	142	8.9%	--	249	9.8%	--	--
Unknown	--	499	3.6%	--	234	1.4%	--	733	2.4%	--	--
Total	4,914,889	13,904	100.0%	282.9	16,559	100.0%	336.9	30,463	100.0%	619.8	161

* Population data by sex at birth, age, and race/ethnicity are from the 2014 U.S. Census population estimates
** Population data by country of birth are from the 2013 American Community Survey
Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2014.
Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.
Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.
Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.
Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).
Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 14 –Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2014 and Reported through 12/31/2015

Sex At Birth	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male	19,817	11,041	55.7%	512	13.0%	15.2%	20.0%	51.8%
Female	10,646	6,386	60.0%	558	12.8%	13.7%	16.6%	56.9%
Total	30,463	17,427	57.2%	528	12.9%	14.6%	18.8%	53.7%

Race/Ethnicity	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Hispanic	1,614	870	53.9%	502	12.9%	16.1%	20.5%	50.6%
Non-Hispanic	28,849	16,557	57.4%	529	12.9%	14.5%	18.7%	53.9%
American Indian/Alaska Native, only	25	***	***	***	***	***	***	***
Asian, only	161	86	53.4%	520	7.0%	15.1%	23.3%	54.7%
Black, only	22,950	13,294	57.9%	523	13.3%	14.8%	18.8%	53.0%
Native Hawaiian/Other Pacific Islander, only	8	***	***	***	***	***	***	***
White only	4,408	2,257	51.2%	585	9.5%	12.8%	17.5%	60.2%
Multiracial/Other	1,297	912	70.3%	500	16.0%	14.3%	19.6%	50.1%
Total	30,463	17,427	57.2%	528	12.9%	14.6%	18.8%	53.7%

Country Of Birth	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
United States	27,178	15,566	57.3%	530	13.1%	14.5%	18.5%	54.0%
Foreign-born	2,552	1,383	54.2%	499	10.6%	16.6%	22.8%	50.0%
Africa	1,556	877	56.4%	498	11.1%	16.9%	22.5%	49.6%
Asia	114	64	56.1%	500	9.4%	15.6%	25.0%	50.0%
Caribbean	216	115	53.2%	543	11.3%	12.2%	21.7%	54.8%
Central America	417	222	53.2%	468	10.8%	20.7%	23.0%	45.5%
Other	249	105	42.2%	540	5.7%	11.4%	25.7%	57.1%
Unknown	733	478	65.2%	542	12.1%	13.8%	18.2%	55.9%
Total	30,463	17,427	57.2%	528	12.9%	14.6%	18.8%	53.7%

*** Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Table 15 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2014 and Reported through 12/31/2015

Sex At Birth	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male	19,817	9,926	50.1%	75.7%	10,579
Female	10,646	5,955	55.9%	74.3%	7,943
Total	30,463	15,881	52.1%	75.2%	9,730

Race/Ethnicity	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Hispanic	1,614	816	50.6%	78.8%	16,610
Non-Hispanic	28,849	15,065	52.2%	75.0%	9,528
American Indian/Alaska Native, only	25	***	***	***	***
Asian, only	161	82	50.9%	86.6%	12,589
Black, only	22,950	12,134	52.9%	73.5%	9,298
Native Hawaiian/Other Pacific Islander, only	8	***	***	***	***
White only	4,408	2,004	45.5%	84.4%	10,810
Multiracial/Other	1,297	835	64.4%	71.6%	9,740
Total	30,463	15,881	52.1%	75.2%	9,730

Country of Birth	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
United States	27,178	14,063	51.7%	74.2%	10,000
Foreign-born	2,552	1,355	53.1%	84.3%	4,411
Africa	1,556	873	56.1%	85.3%	4,410
Asia	114	62	54.4%	83.9%	4,170
Caribbean	216	114	52.8%	79.8%	8,560
Central America	417	209	50.1%	80.9%	11,748
Other	249	97	39.0%	87.6%	1,420
Unknown	2,552	1,355	53.1%	84.3%	4,411
Total	30,463	15,881	52.1%	75.2%	9,730

*** Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

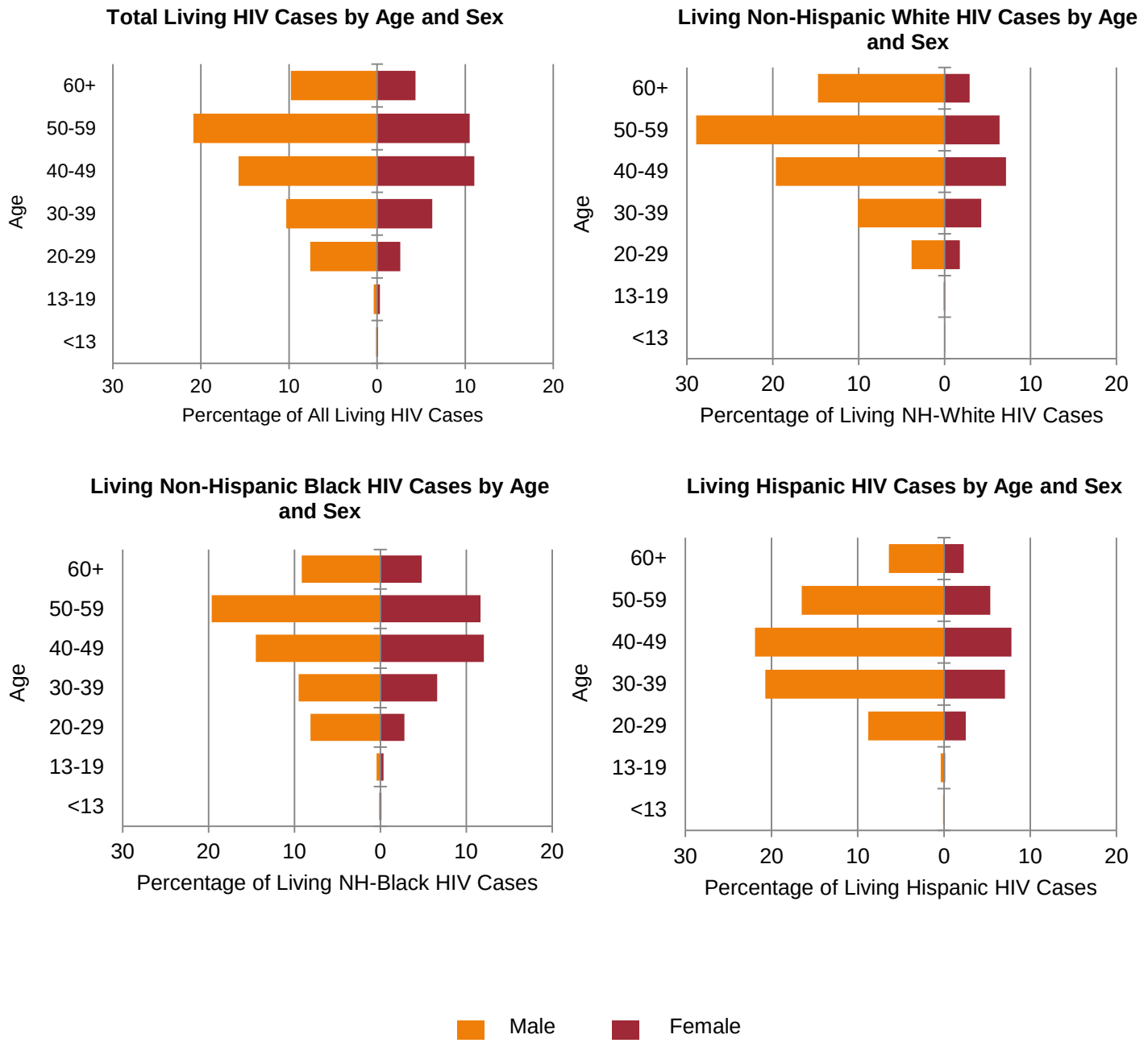
Recent Viral Load Test Result: The most recent viral load test result reported in the 12 months prior to December 31st of the specified year.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result reported in the 12 months prior to December 31st of the specified year of 200 copies per milliliter or greater.

Section VI – HIV Cases by Expanded Demographics

Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2014 and Reported through 12/31/2015



Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Table 16 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2014 and Reported through 12/31/2015

MALES						
AGE ON 12/31/2014		RACE/ETHNICITY				TOTAL MALES BY AGE GROUP
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	71,541	152,562	213,739	57,459	495,300
	Cases	2	29	1	3	35
	Rate	2.8	19.0	0.5	5.2	7.1
	Ratio (1 in X)	35,770	5,260	213,738	19,152	14,151
13-19	Population	30,296	86,222	131,079	26,785	274,383
	Cases	6	100	5	9	120
	Rate	19.8	116.0	3.8	33.6	43.7
	Ratio (1 in X)	5,049	862	26,215	2,976	2,286
20-29	Population	50,751	127,825	200,720	26,785	406,081
	Cases	143	1900	171	135	2,349
	Rate	281.8	1,486.4	85.2	504.0	578.5
	Ratio (1 in X)	354	67	1,173	198	172
30-39	Population	57,696	106,837	183,291	26,785	374,609
	Cases	337	2,226	449	181	3,193
	Rate	584.1	2,083.5	245.0	675.7	852.4
	Ratio (1 in X)	171	47	408	147	117
40-49	Population	40,551	114,965	203,864	26,785	386,165
	Cases	356	3,390	874	249	4,869
	Rate	877.9	2,948.7	428.7	929.6	1,260.9
	Ratio (1 in X)	113	33	233	107	79
50-59	Population	23,930	112,807	253,472	28,002	418,211
	Cases	268	4,585	1,287	313	6,453
	Rate	1,119.9	4,064.5	507.7	1,117.8	1,543.0
	Ratio (1 in X)	89	24	196	89	64
60+	Population	16,164	113,639	354,261	31,330	515,394
	Cases	104	2,138	656	129	3,027
	Rate	643.4	1,881.4	185.2	411.7	587.3
	Ratio (1 in X)	155	53	540	242	170
TOTAL MALES BY RACE/ETHNICITY	Population	290,929	814,857	1,540,426	223,932	2,870,144
	Cases	1,216	14,368	3,443	1,019	20,046
	Rate	418.0	1,763.3	223.5	455.0	698.4
	Ratio (1 in X)	239	56	447	219	143

Age on [date]: Age group of living cases on the specified date.
Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.
Population: Population estimate for 7/1/2014.
Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).
Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 17 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2014 and Reported through 12/31/2015

FEMALES						
AGE ON 12/31/2014		RACE/ETHNICITY				TOTAL FEMALES BY AGE GROUP
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	68,225	148,144	203,924	55,211	475,504
	Cases	0	34	2	2	38
	Rate	0.0	23.0	1.0	3.6	8.0
	Ratio (1 in X)	--	4,357	101,961	27,605	12,513
13-19	Population	27,934	84,490	123,976	26,839	263,239
	Cases	2	89	3	3	97
	Rate	7.2	105.3	2.4	11.2	36.8
	Ratio (1 in X)	13,967	949	41,325	8,946	2,713
20-29	Population	42,809	134,421	193,271	37,890	408,391
	Cases	41	655	79	43	818
	Rate	95.8	487.3	40.9	113.5	200.3
	Ratio (1 in X)	1,044	205	2,446	881	499
30-39	Population	46,937	126,949	183,261	43,388	400,535
	Cases	115	1,547	189	88	1,939
	Rate	245.0	1,218.6	103.1	202.8	484.1
	Ratio (1 in X)	408	82	969	493	206
40-49	Population	35,583	135,915	211,664	39,745	422,907
	Cases	127	2,820	318	153	3,418
	Rate	356.9	2,074.8	150.2	385.0	808.2
	Ratio (1 in X)	280	48	665	259	123
50-59	Population	23,654	137,337	262,114	32,753	455,858
	Cases	87	2,729	285	151	3,252
	Rate	367.8	1,987.1	108.7	461.0	713.4
	Ratio (1 in X)	271	50	919	216	140
60+	Population	21,300	167,331	426,068	38,856	653,555
	Cases	37	1,129	129	55	1,350
	Rate	173.7	674.7	30.3	141.5	206.6
	Ratio (1 in X)	575	148	3,302	706	484
TOTAL FEMALES BY RACE/ETHNICITY	Population	266,442	934,587	1,604,278	274,682	3,079,989
	Cases	409	9,003	1,005	495	10,912
	Rate	153.5	963.3	62.6	180.2	354.3
	Ratio (1 in X)	651	103	1,596	554	282

Age on [date]: Age group of living cases on the specified date.
Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.
Population: Population estimate for 7/1/2014.
Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).
Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Section VII – HIV Exposure Category

Table 18 – Adult/Adolescent HIV Diagnoses during 2014, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Exposure Category and Sex at Birth, Reported through 12/31/2015

Exposure Category	Adult/Adolescent HIV Diagnoses								
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnoses	% Late Diagnosis	First CD4 Test Result		
							No. with Test	% with Test	Median Count
With Exposure	927	100.0%	767	82.7%	244	26.3%	786	84.8%	388
Men who have Sex with Men (MSM)	494	53.3%	407	82.4%	111	22.5%	417	84.4%	425
Injection Drug Users (IDU)	33	3.6%	18	54.5%	11	33.3%	26	78.8%	283
Men who have Sex with Men and Inject Drugs (MSM/IDU)	8	0.9%	5	62.5%	***	***	7	87.5%	445
Heterosexual Exposure (HET)	391	42.2%	336	85.9%	121	30.9%	336	85.9%	319
Other Exposure	1	0.1%	1	100.0%	***	***	--	--	--
No Reported Exposure*	303		230	75.9%	96	31.7%	216	71.3%	304
Total	1,230		997	81.1%	340	27.6%	1,002	81.5%	374

Male Exposure Category	Adult/Adolescent Reported HIV Diagnoses								
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnoses	% Late Diagnosis	First CD4 Test Result		
							No. with Test	% with Test	Median Count
With Exposure	665	100.0%	537	80.8%	166	25.0%	555	83.5%	401
Men who have Sex with Men (MSM)	494	74.3%	407	82.4%	111	22.5%	417	84.4%	425
Injection Drug Users (IDU)	20	3.0%	11	55.0%	9	45.0%	16	80.0%	216
Men who have Sex with Men and Inject Drugs (MSM/IDU)	8	1.2%	5	62.5%	***	***	7	87.5%	445
Heterosexual Exposure (HET)	142	21.4%	113	79.6%	45	31.7%	115	81.0%	298
Other Exposure	1	0.2%	1	100.0%	***	***	--	--	--
No Reported Exposure	206		160	77.7%	64	31.1%	151	73.3%	324
Total	871		697	80.0%	230	26.4%	706	81.1%	397

Female Exposure Category	Adult/Adolescent Reported HIV Diagnoses								
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnoses	% Late Diagnosis	First CD4 Test Result		
							No. with Test	% with Test	Median Count
With Exposure	262	100.0%	230	87.8%	78	29.8%	231	88.2%	327
Injection Drug Users (IDU)	13	5.0%	7	53.8%	***	***	10	76.9%	507
Heterosexual Exposure (HET)	249	95.0%	223	89.6%	76	30.5%	221	88.8%	319
Other Exposure	0	0.0%	0	0.0%	--	--	--	--	--
No Reported Exposure*	97		70	72.2%	***	***	65	***	***
Total	359		300	83.6%	110	30.6%	296	82.5%	307

*** Data withheld due to low population and/or case counts

***** Includes 2 new HIV diagnoses with Presumed Female Heterosexual exposure

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 19 – Adult/Adolescent AIDS Diagnoses during 2014, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Exposure Category and Sex at Birth, Reported through 12/31/2015

Exposure Category	Adult/Adolescent AIDS Diagnoses			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	482	100.0%	4.0	53.5%
Men who have Sex with Men (MSM)	202	41.9%	3.6	57.4%
Injection Drug Users (IDU)	56	11.6%	8.3	14.3%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	6	1.2%	7.3	16.7%
Heterosexual Exposure (HET)	218	45.2%	3.2	61.0%
Other Exposures	0	0.0%	--	--
No Reported Exposure*	157		2.4	61.8%
Total	639		3.6	55.6%

Male Exposure Category	Adult/Adolescent AIDS Diagnoses			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	321	100.0%	4.1	53.3%
Men who have Sex with Men (MSM)	202	62.9%	3.6	57.4%
Injection Drug Users (IDU)	33	10.3%	8.5	18.2%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	6	1.9%	7.3	16.7%
Heterosexual Exposure (HET)	80	24.9%	3.4	60.0%
Other Exposures	0	0.0%	--	--
No Reported Exposure	97		2.3	70.1%
Total	418		3.7	57.2%

Female Exposure Category	Adult/Adolescent AIDS Diagnoses			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	161	100.0%	3.8	54.0%
Injection Drug Users (IDU)	23	14.3%	8.1	8.7%
Heterosexual Exposure (HET)	138	85.7%	3.1	61.6%
Other Exposures	0	0.0%	--	--
No Reported Exposure*	60		2.7	48.3%
Total	221		3.5	52.5%

***** Includes 7 new HIV diagnoses with Presumed Female Heterosexual exposure

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.
Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.
Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to12 months prior to their initial AIDS diagnosis.

Table 20 – Adult/Adolescent Living HIV Cases with and without AIDS by Exposure Category and Sex at Birth, Alive on 12/31/2014 and Reported through 12/31/2015

Exposure Category	Adult/Adolescent Living HIV Cases without AIDS		Adult/Adolescent Living HIV Cases with AIDS		Adult/Adolescent Total Living HIV Cases	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	9,528	100.0%	13,832	100.0%	23,360	100.0%
Men who have Sex with Men (MSM)	4,054	42.5%	4,150	30.0%	8,204	35.1%
Injection Drug Users (IDU)	1,811	19.0%	4,155	30.0%	5,966	25.5%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	229	2.4%	555	4.0%	784	3.4%
Heterosexual Exposure (HET)	3,405	35.7%	4,910	35.5%	8,315	35.6%
Other Exposures	29	0.3%	62	0.4%	91	0.4%
No Reported Exposure*	4,376		2,727		7,103	
Total	13,904		16,559		30,463	

Male Exposure Category	Adult/Adolescent Living HIV Cases without AIDS		Adult/Adolescent Living HIV Cases with AIDS		Adult/Adolescent Total Living HIV Cases	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	6,555	100.0%	9,181	100.0%	15,736	100.0%
Men who have Sex with Men (MSM)	4,054	61.8%	4,150	45.2%	8,204	52.1%
Injection Drug Users (IDU)	1,119	17.1%	2,665	29.0%	3,784	24.0%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	229	3.5%	555	6.0%	784	5.0%
Heterosexual Exposure (HET)	1,141	17.4%	1,778	19.4%	2,919	18.5%
Other Exposures	12	0.2%	33	0.4%	45	0.3%
No Reported Exposure	2,478		1,603		4,081	
Total	9,033		10,784		19,817	

Female Exposure Category	Adult/Adolescent Living HIV Cases without AIDS		Adult/Adolescent Living HIV Cases with AIDS		Adult/Adolescent Total Living HIV Cases	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	2,973	100.0%	4,651	100.0%	7,624	100.0%
Injection Drug Users (IDU)	692	23.3%	1,490	32.0%	2,182	28.6%
Heterosexual Exposure (HET)	2,264	76.2%	3,132	67.3%	5,396	70.8%
Other Exposures	17	0.6%	29	0.6%	46	0.6%
No Reported Exposure*	1,898		1,124		3,022	
Total	4,871		5,775		10,646	

* Includes 112 HIV cases without AIDS and 90 HIV cases with AIDS with Presumed Female Heterosexual exposure

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.
Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.
Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 21 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2014 and Reported through 12/31/2015

Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	1,226	100.0%	17,441	100.0%	3,478	100.0%
Men who have Sex with Men (MSM)	550	44.9%	5,100	29.2%	2,051	59.0%
Injection Drug Users (IDU)	127	10.4%	4,917	28.2%	631	18.1%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	30	2.4%	572	3.3%	133	3.8%
Heterosexual Exposure (HET)	517	42.2%	6,795	39.0%	635	18.3%
Other Exposures	2	0.2%	57	0.3%	28	0.8%
No Reported Exposure*	388		5,509		930	
Total	1,614		22,950		4,408	

Male Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	939	100.0%	11,199	100.0%	2,769	100.0%
Men who have Sex with Men (MSM)	550	58.6%	5,100	45.5%	2,051	74.1%
Injection Drug Users (IDU)	92	9.8%	3,205	28.6%	339	12.2%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	30	3.2%	572	5.1%	133	4.8%
Heterosexual Exposure (HET)	266	28.3%	2,301	20.5%	225	8.1%
Other Exposures	1	0.1%	21	0.2%	21	0.8%
No Reported Exposure	271		2,982		652	
Total	1,210		14,181		3,421	

Female Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	287	100.0%	6,242	100.0%	709	100.0%
Injection Drug Users (IDU)	35	12.2%	1,712	27.4%	292	41.2%
Heterosexual Exposure (HET)	251	87.5%	4,494	72.0%	410	57.8%
Other Exposures	1	0.3%	36	0.6%	7	1.0%
No Reported Exposure*	117		2,527		278	
Total	404		8,769		987	

* Includes 11 Hispanic cases, 174 non-Hispanic black cases, and 12 non-Hispanic white cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 22 – Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results by Exposure Category, Alive on 12/31/2014 and Reported through 12/31/2015

Exposure Category	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
With Exposure	23,360	13,976	59.8%	523	13.0%	14.8%	19.1%	53.1%
Men who have Sex with Men (MSM)	8,204	4,731	57.7%	546	9.7%	12.7%	20.7%	57.0%
Injection Drug Users (IDU)	5,966	3,611	60.5%	472	16.5%	18.5%	18.6%	46.4%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	784	455	58.0%	495	16.0%	15.8%	18.9%	49.2%
Heterosexual Exposure (HET)	8,315	5,122	61.6%	538	13.2%	14.2%	17.8%	54.8%
Other Exposures	91	57	62.6%	455	19.3%	17.5%	28.1%	35.1%
No Reported Exposure*	7,103	3,451	48.6%	546	12.6%	13.7%	17.7%	56.0%
Total	30,463	17,427	57.2%	528	12.9%	14.6%	18.8%	53.7%

* Includes 202 cases with Presumed Female Heterosexual exposure

Table 23 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results by Exposure Category, Alive on 12/31/2014 and Reported through 12/31/2015

Exposure Category	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Count
With Exposure	23,360	12,575	53.8%	74.5%	10,298
Men who have Sex with Men (MSM)	8,204	4,378	53.4%	76.2%	10,995
Injection Drug Users (IDU)	5,966	3,004	50.4%	70.4%	11,153
Men who have Sex with Men and Inject Drugs (MSM/IDU)	784	384	49.0%	69.5%	11,710
Heterosexual Exposure (HET)	8,315	4,764	57.3%	76.1%	8,187
Other Exposures	91	45	49.5%	57.8%	30,903
No Reported Exposure*	7,103	3,306	46.5%	77.6%	7,890
Total	30,463	15,881	52.1%	75.2%	9,730

* Includes 202 cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result reported in the 12 months prior to December 31st of the specified year.

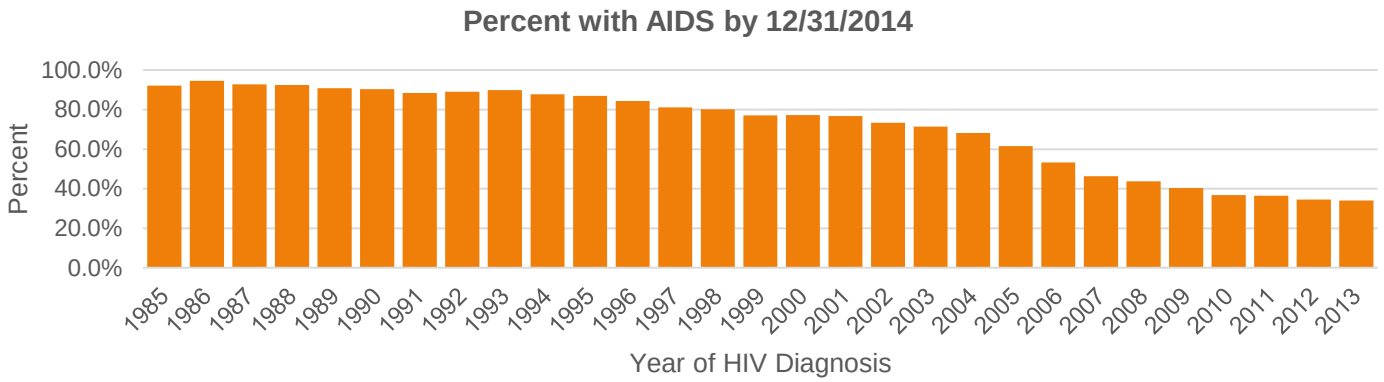
Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result reported in the 12 months prior to December 31st of the specified year of 200 copies per milliliter or greater.

Section VIII – Disease Progression and Mortality

Figure 10 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2013, Reported through 12/31/2015

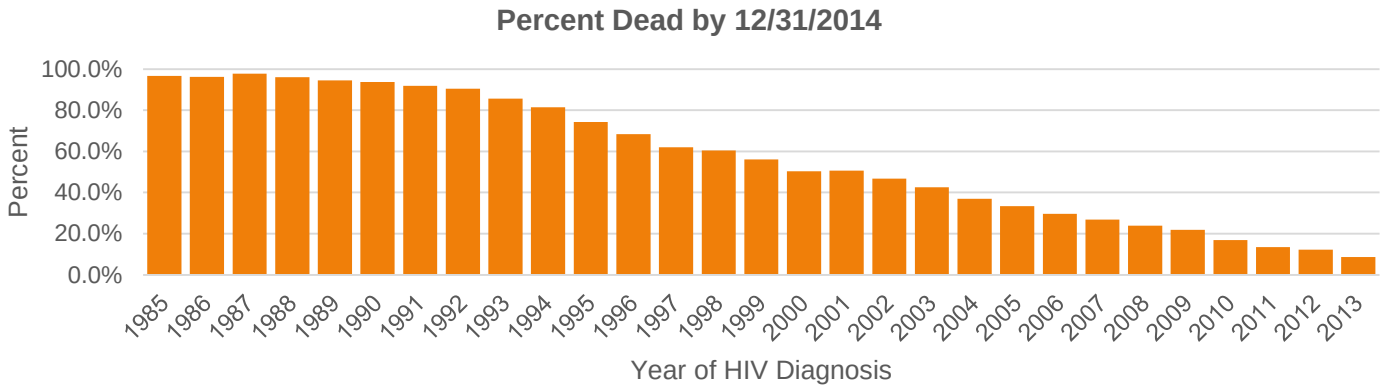
Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 12/31/13 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2014 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2014, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2013, as Reported by Name through 12/31/2015



Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses							
	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	350	335	95.7%	6.8	40.0%	40.0%	43.4%	67.7%
1985	689	635	92.2%	6.2	31.3%	32.7%	39.8%	74.6%
1986	914	864	94.5%	5.2	36.8%	37.7%	49.3%	81.8%
1987	1,234	1,145	92.8%	4.4	38.6%	40.9%	57.6%	83.3%
1988	1,662	1,537	92.5%	3.8	40.9%	44.6%	65.6%	85.4%
1989	2,133	1,939	90.9%	3.5	41.1%	45.8%	68.7%	84.2%
1990	2,206	1,994	90.4%	3.0	44.4%	51.4%	72.6%	84.8%
1991	2,556	2,259	88.4%	2.7	46.2%	55.1%	73.2%	82.8%
1992	2,429	2,165	89.1%	2.6	49.7%	58.0%	74.2%	82.8%
1993	2,164	1,944	89.8%	2.2	55.2%	63.5%	77.1%	85.4%
1994	2,001	1,757	87.8%	2.1	56.9%	64.3%	75.3%	83.3%
1995	2,003	1,743	87.0%	2.2	58.2%	63.7%	72.7%	82.5%
1996	1,855	1,565	84.4%	2.0	59.0%	63.3%	71.2%	80.3%
1997	1,881	1,525	81.1%	2.0	56.6%	61.0%	68.8%	76.7%
1998	1,857	1,490	80.2%	2.0	56.1%	59.8%	67.7%	76.0%
1999	1,788	1,376	77.0%	1.6	56.7%	60.6%	67.6%	74.0%
2000	1,706	1,319	77.3%	1.6	55.6%	59.3%	68.1%	74.7%
2001	1,839	1,411	76.7%	1.4	57.3%	60.7%	69.4%	74.5%
2002	2,086	1,528	73.2%	1.4	55.7%	59.4%	65.8%	71.2%
2003	1,946	1,389	71.4%	1.3	55.2%	58.3%	63.8%	70.1%
2004	2,014	1,373	68.2%	1.4	51.8%	55.0%	60.4%	67.2%
2005	2,082	1,280	61.5%	1.3	47.0%	49.5%	55.0%	--
2006	2,194	1,170	53.3%	1.3	39.2%	41.5%	48.0%	--
2007	2,249	1,042	46.3%	1.5	31.9%	34.2%	41.3%	--
2008	2,133	934	43.8%	1.3	30.7%	33.6%	40.5%	--
2009	1,757	708	40.3%	1.2	29.1%	31.2%	38.4%	--
2010	1,780	655	36.8%	0.9	27.5%	30.4%	--	--
2011	1,464	533	36.4%	0.6	30.0%	33.5%	--	--
2012	1,367	471	34.5%	0.5	29.8%	32.3%	--	--
2013	1,318	450	34.1%	0.3	31.9%	--	--	--
Total	53,657	38,536	71.8%	2.3	45.8%	50.0%	59.9%	68.3%

Figure 11 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2013, Reported through 12/31/2015

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/13 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2014 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2014, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2013, as Reported by Name through 12/31/2015

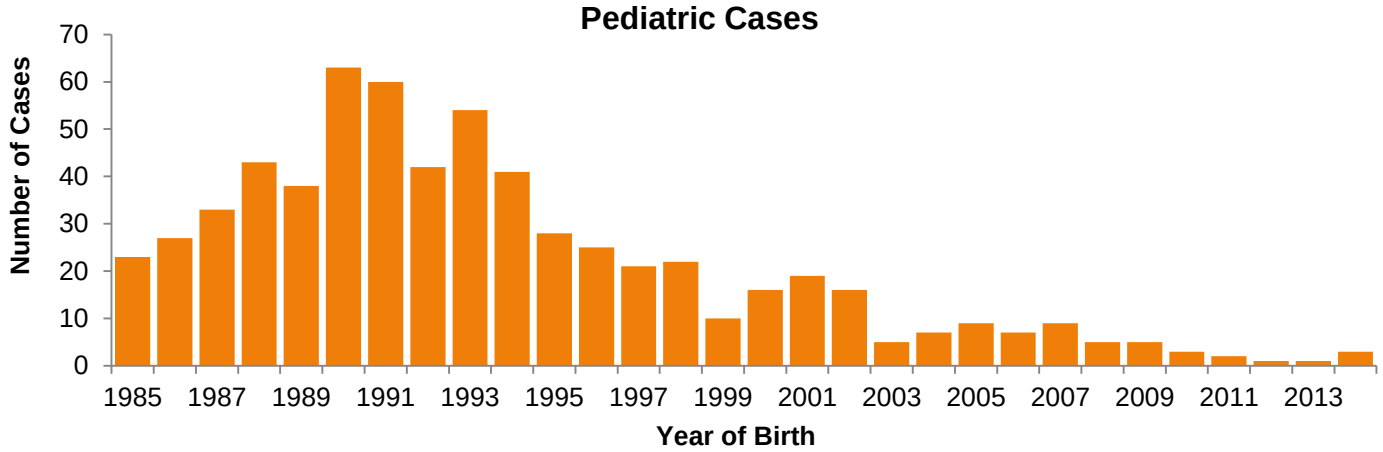


Year of HIV Diagnosis	Adult/Adolescent Reported AIDS Diagnoses							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	145	140	96.6%	1.7	42.1%	20.7%	10.3%	7.6%
1985	208	201	96.6%	1.6	42.3%	19.2%	10.6%	5.3%
1986	314	302	96.2%	2.1	51.0%	32.8%	13.1%	8.3%
1987	493	482	97.8%	2.0	56.8%	31.6%	11.0%	5.5%
1988	690	663	96.1%	2.2	60.4%	37.8%	13.8%	6.5%
1989	920	869	94.5%	2.5	63.8%	43.5%	17.6%	9.6%
1990	1,172	1,098	93.7%	2.9	66.5%	47.7%	21.2%	12.1%
1991	1,463	1,344	91.9%	2.7	68.2%	48.1%	18.9%	12.9%
1992	1,953	1,766	90.4%	3.0	71.8%	50.5%	22.7%	16.8%
1993	2,248	1,924	85.6%	3.5	77.0%	56.5%	33.4%	22.6%
1994	2,162	1,763	81.5%	3.8	77.7%	58.8%	39.6%	26.7%
1995	2,165	1,606	74.2%	4.6	78.1%	67.0%	51.2%	37.2%
1996	1,945	1,329	68.3%	5.1	82.3%	75.6%	60.3%	44.0%
1997	1,685	1,044	62.0%	5.0	85.0%	77.9%	63.4%	48.7%
1998	1,541	932	60.5%	5.1	86.8%	80.7%	66.1%	49.4%
1999	1,537	861	56.0%	4.7	87.2%	80.7%	66.4%	51.6%
2000	1,415	713	50.4%	4.7	88.1%	83.5%	69.9%	56.3%
2001	1,549	786	50.7%	4.1	86.4%	79.5%	66.5%	55.1%
2002	1,613	754	46.8%	4.3	87.8%	82.6%	70.8%	59.2%
2003	1,551	659	42.5%	3.4	85.0%	79.8%	69.9%	60.2%
2004	1,521	561	36.9%	3.5	88.2%	83.8%	74.6%	64.8%
2005	1,460	488	33.4%	3.0	88.4%	84.2%	75.2%	--
2006	1,301	385	29.6%	2.9	89.5%	85.6%	77.4%	--
2007	1,084	290	26.8%	2.5	88.9%	85.9%	78.7%	--
2008	1,045	250	23.9%	2.0	89.0%	85.6%	79.0%	--
2009	867	189	21.8%	1.9	90.1%	86.9%	79.6%	--
2010	992	168	16.9%	1.5	91.5%	88.5%	--	--
2011	810	109	13.5%	1.4	93.5%	90.7%	--	--
2012	890	109	12.2%	0.9	91.8%	89.9%	--	--
2013	902	78	8.6%	0.6	93.7%	--	--	--
Total	37,641	21,863	58.1%	3.6	81.6%	71.5%	56.7%	47.3%

Section IX – Pediatric Cases

Figure 12 – Trends in Pediatric HIV Cases, 1985-2014, Reported through 12/31/2015

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2014, as Reported by Name through 12/31/2015



Year	Pediatric Reported HIV Diagnoses				Pediatric Total Living HIV Cases
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	No. Alive on 12/31 of Each Year
<1985	54	4	2	0	
1985	23	13	7	2	16
1986	27	14	6	4	26
1987	33	21	14	5	42
1988	43	29	19	6	65
1989	38	34	25	8	91
1990	63	52	22	9	134
1991	60	54	36	12	176
1992	42	62	36	12	226
1993	54	57	35	16	267
1994	41	41	30	16	291
1995	28	29	21	20	299
1996	25	35	24	19	315
1997	21	16	12	6	325
1998	22	19	10	6	338
1999	10	29	13	5	360
2000	16	13	5	0	373
2001	19	14	12	5	381
2002	16	20	11	3	397
2003	5	5	2	6	396
2004	7	10	4	6	400
2005	9	9	5	2	406
2006	7	16	6	4	419
2007	9	51	8	5	465
2008	5	14	10	3	478
2009	5	9	3	2	485
2010	3	5	9	6	486
2011	2	7	7	2	491
2012	1	3	4	4	491
2013	1	2	11	2	491
2014	3	5	5	0	495
Total	692	692	414	196	

Table 24 – Pediatric HIV Total Living HIV Cases, Alive on 12/31/2014, by Jurisdiction, Reported through 12/31/2015

Jurisdiction of Residence at Diagnosis	Pediatric Total Living HIV Cases	
	No.	% of Total
Allegany	2	0.4%
Anne Arundel	21	4.2%
Baltimore City	222	44.8%
Baltimore	49	9.9%
Calvert	2	0.4%
Caroline	1	0.2%
Carroll	4	0.8%
Cecil	2	0.4%
Charles	3	0.6%
Dorchester	4	0.8%
Frederick	6	1.2%
Garrett	0	0.0%
Harford	13	2.6%
Howard	6	1.2%
Kent	1	0.2%
Montgomery	43	8.7%
Prince George's	106	21.4%
Queen Anne's	0	0.0%
Saint Mary's	1	0.2%
Somerset	1	0.2%
Talbot	2	0.4%
Washington	2	0.4%
Wicomico	1	0.2%
Worcester	1	0.2%
Corrections	2	0.4%
Total	495	100.0%

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis for pediatric reported HIV diagnoses, and jurisdiction of residence at later of time of initial HIV diagnosis or initial AIDS diagnosis for pediatric total living HIV cases.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 25 – Pediatric Total Living HIV Cases by Sex at Birth and Race/Ethnicity, Alive on 12/31/2014 and Reported through 12/31/2015

Sex at Birth	Pediatric Total Living HIV Cases	
	No.	% of Total
Male	229	46.3%
Female	266	53.7%
Total	495	100.0%

Race/Ethnicity	Pediatric Total Living HIV Cases	
	No.	% of Total
Hispanic	11	2.2%
Non-Hispanic	484	97.8%
American Indian/ Alaska Native, only	1	0.2%
Asian, only	1	0.2%
Black, only	421	85.1%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	40	8.1%
Multiracial/Other	21	4.2%
Total	495	100.0%

Pediatric Reported HIV Diagnoses: Reported HIV diagnoses, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, with initial HIV diagnosis during the specified year.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 26 – Perinatal HIV Transmissions by Year of Birth, 2005-2014

Year of Birth	Live Births	Women of Childbearing Age Total Living HIV Cases	Reported Perinatal HIV Exposures	Confirmed Perinatal HIV Transmissions	Perinatal HIV Transmission Rate
	No.	No.	No.	No.	%
2005	74,880	6,437	140	4	2.9%
2006	77,430	6,784	178	5	2.8%
2007	78,057	7,144	176	6	3.4%
2008	77,268	7,368	206	6	2.9%
2009	74,999	7,351	171	3	1.8%
2010	73,783	7,216	175	4	2.3%
2011	73,052	6,763	173	2	1.2%
2012	72,751	7,917	183	1	0.5%
2013	71,806	7,702	163*	1	0.6%
2014	73,588	7,125	173*	3	1.7%
Total	747,614	--	1,738	35	2.0%

*2013-2014 reported perinatal HIV exposure and confirmed perinatal HIV transmissions data are preliminary.

Live births from Maryland Vital Statistics Annual Report 2014.

Women of childbearing age (ages 13-49) total living HIV cases, reported perinatal HIV exposures, and confirmed perinatal transmissions from Maryland Enhanced HIV/AIDS Reporting System, December 31, 2015.

Live Births: Babies born alive in the general population.
Women of Childbearing Age Total Living HIV cases: Reported HIV diagnoses among women of childbearing age (13-49 years old) on December 31st of the specified year.
Reported Perinatal HIV Exposures: Reported babies born to an HIV positive mother during the specified year.
Confirmed Perinatal HIV Transmissions: Reported babies born to an HIV positive mother, with a confirmed HIV diagnosis.
Perinatal HIV Transmission Rate: Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures.

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis**.**

Age on [date]: Age group of living cases on the specified date.

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Confirmed Perinatal HIV Transmissions: Reported babies born to an HIV positive mother, with a confirmed HIV diagnosis.

Current Residence 2009-2015: Jurisdiction of residence from the most recent laboratory test or case report between 1/1/2009-12/31/2015.

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

Jurisdiction of Residence: Jurisdiction of residence at time of initial HIV diagnosis or most recent lab test.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Last Known Residence: Jurisdiction of residence from the most recent laboratory test or case report, reported through 12/31/2015.

Live Births: Babies born alive in the general population.

Living HIV Cases with AIDS: Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median: The measure of central location, which divides a set of data into two equal parts.

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result reported in the 12 months prior to December 31st of the specified year

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result reported in the 12 months prior to December 31st of the specified year of 200 copies per milliliter or greater.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Pediatric Reported HIV Diagnoses: Reported HIV diagnoses, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, with initial HIV diagnosis during the specified year.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

Percent with AIDS: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis by 12/31/2015.

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Perinatal HIV Transmission Rate: Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures.

Population: Population estimate for 7/1/2014.

Population Age 13+: Population age13 years or older, estimate for 7/1/2014.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

Recent Viral Load Test Result: The most recent viral load test result reported in the 12 months prior to December 31st of the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Reported Perinatal HIV Exposures: Reported babies born to an HIV positive mother during the specified year.

Retained in HIV Care: HIV Diagnosed with a CD4 test result reported in the 12 months prior to December 31st of the specified year.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Women of Childbearing Age Total Living HIV cases: Reported HIV diagnoses among women of childbearing age (13-49 years old) on December 31st of the specified year